

FIGURE 2

FIG. 3 is a side view of the device.

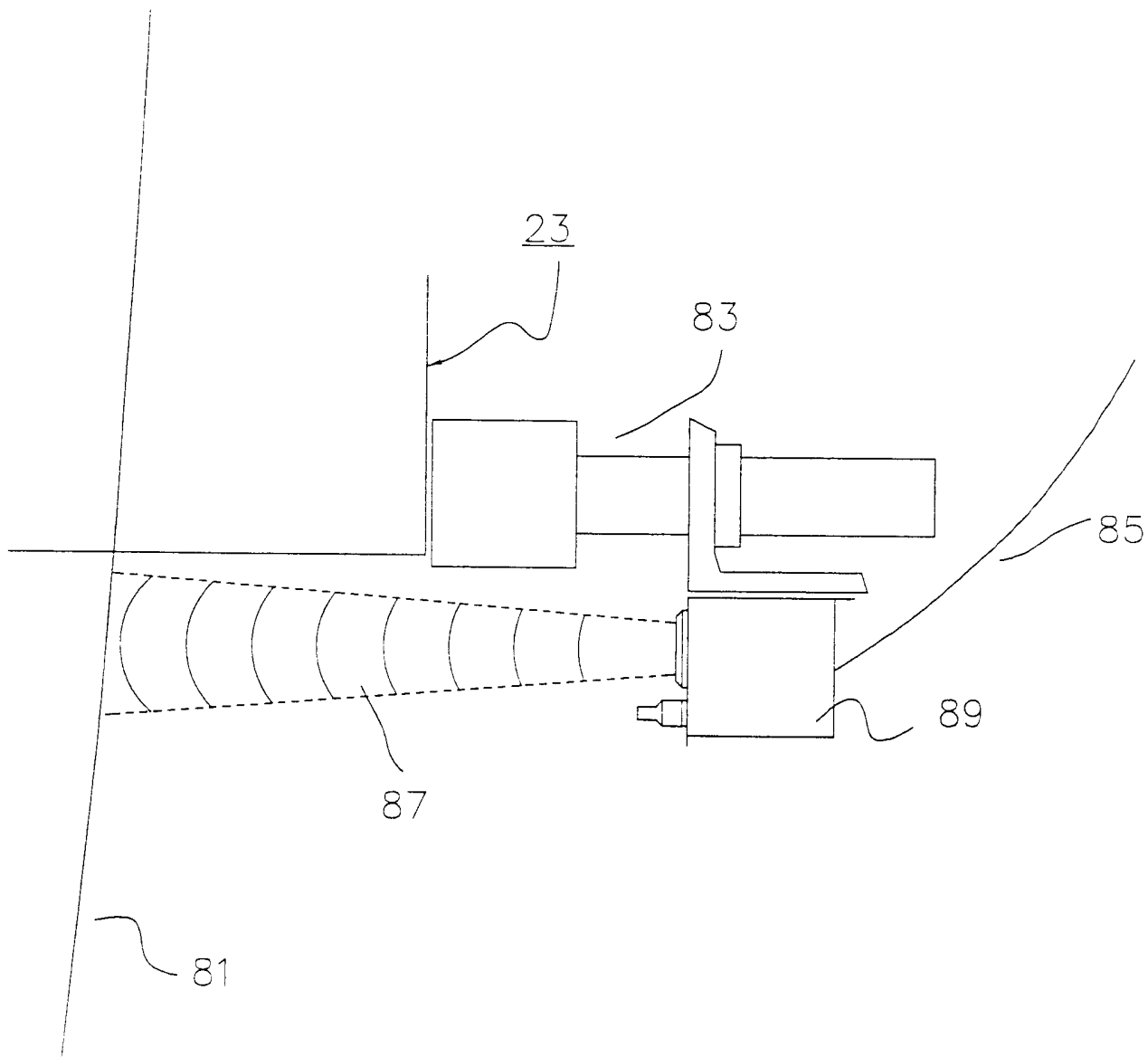


FIGURE 3

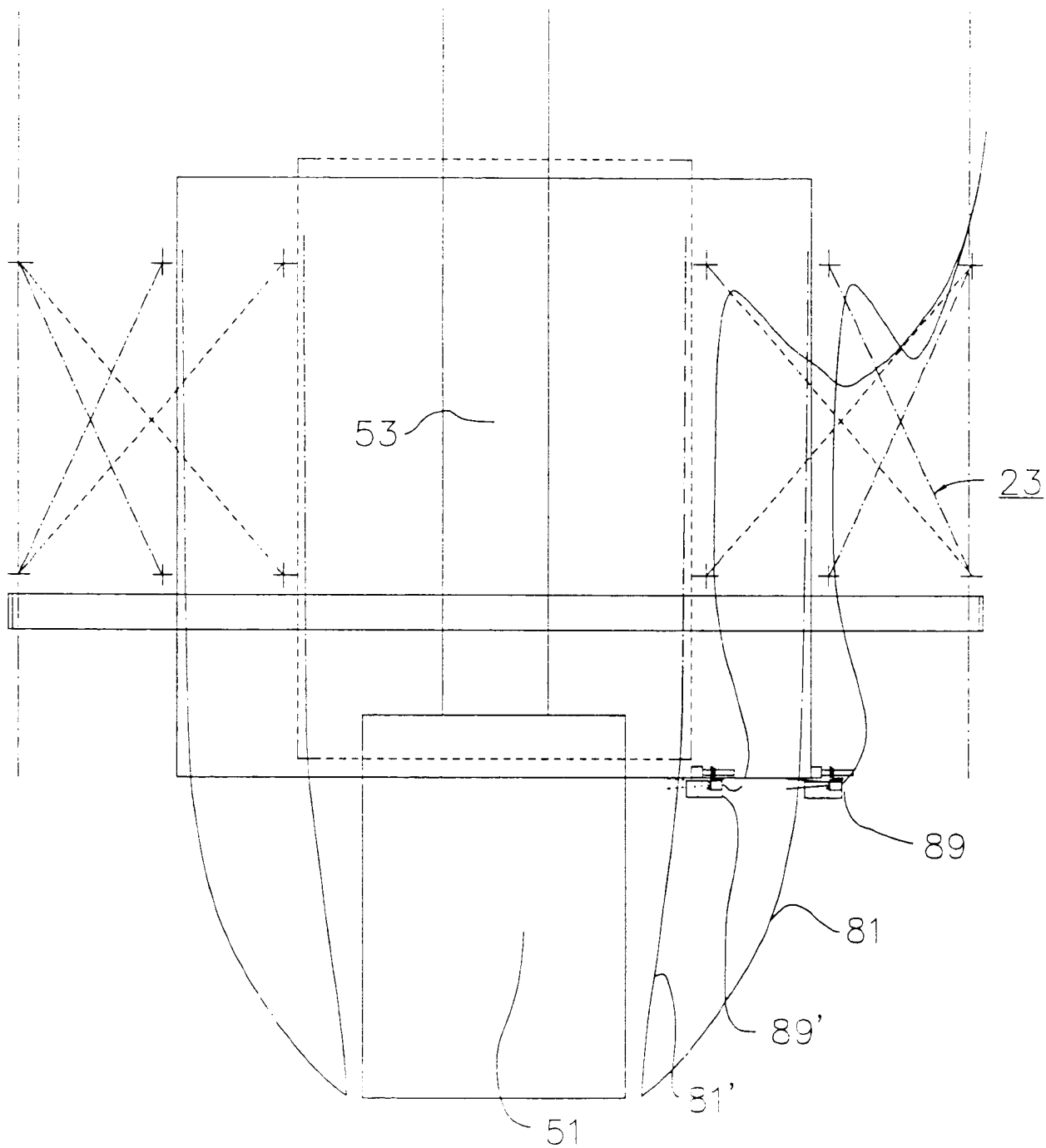


FIGURE 4

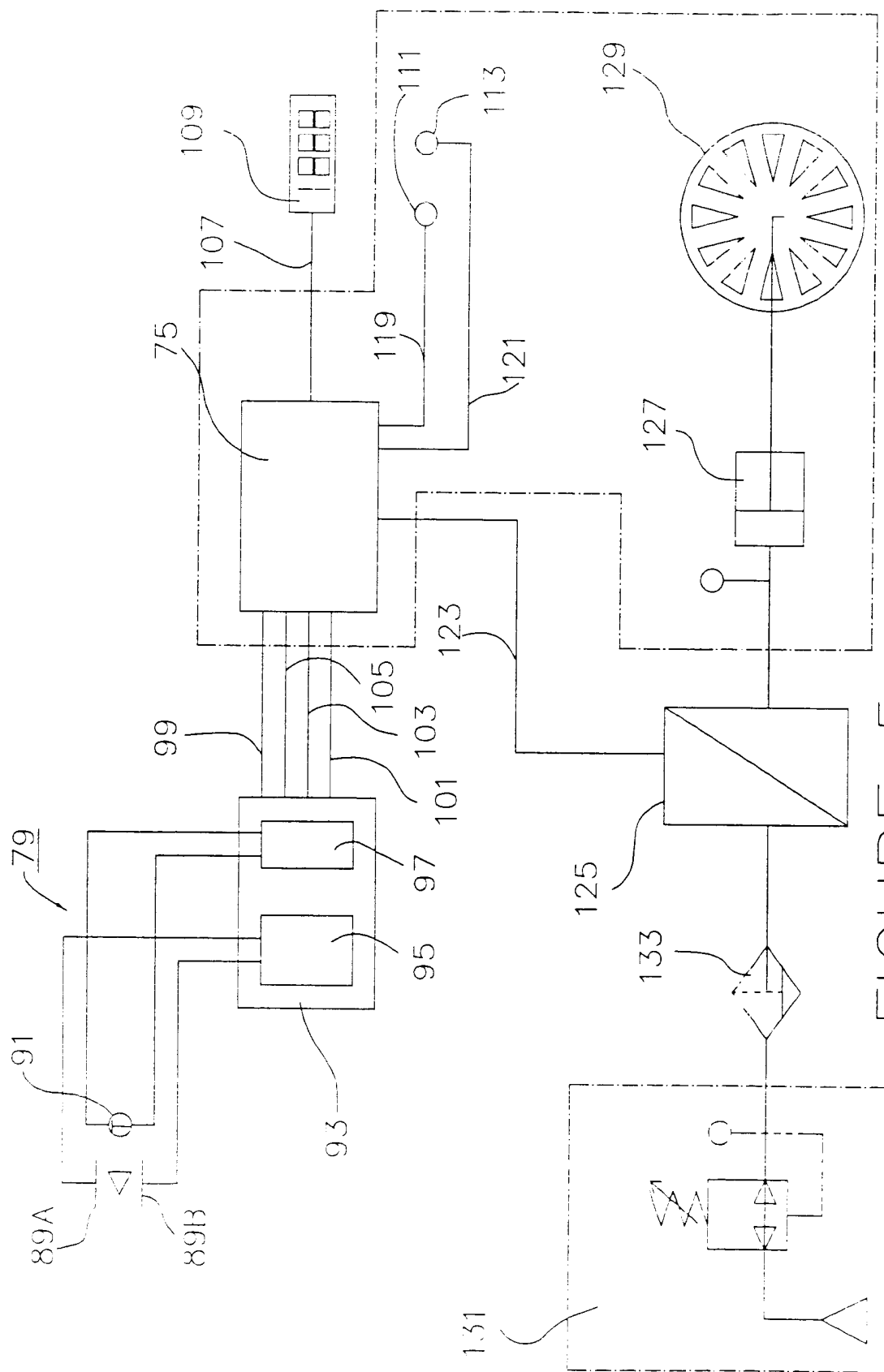


FIGURE 5

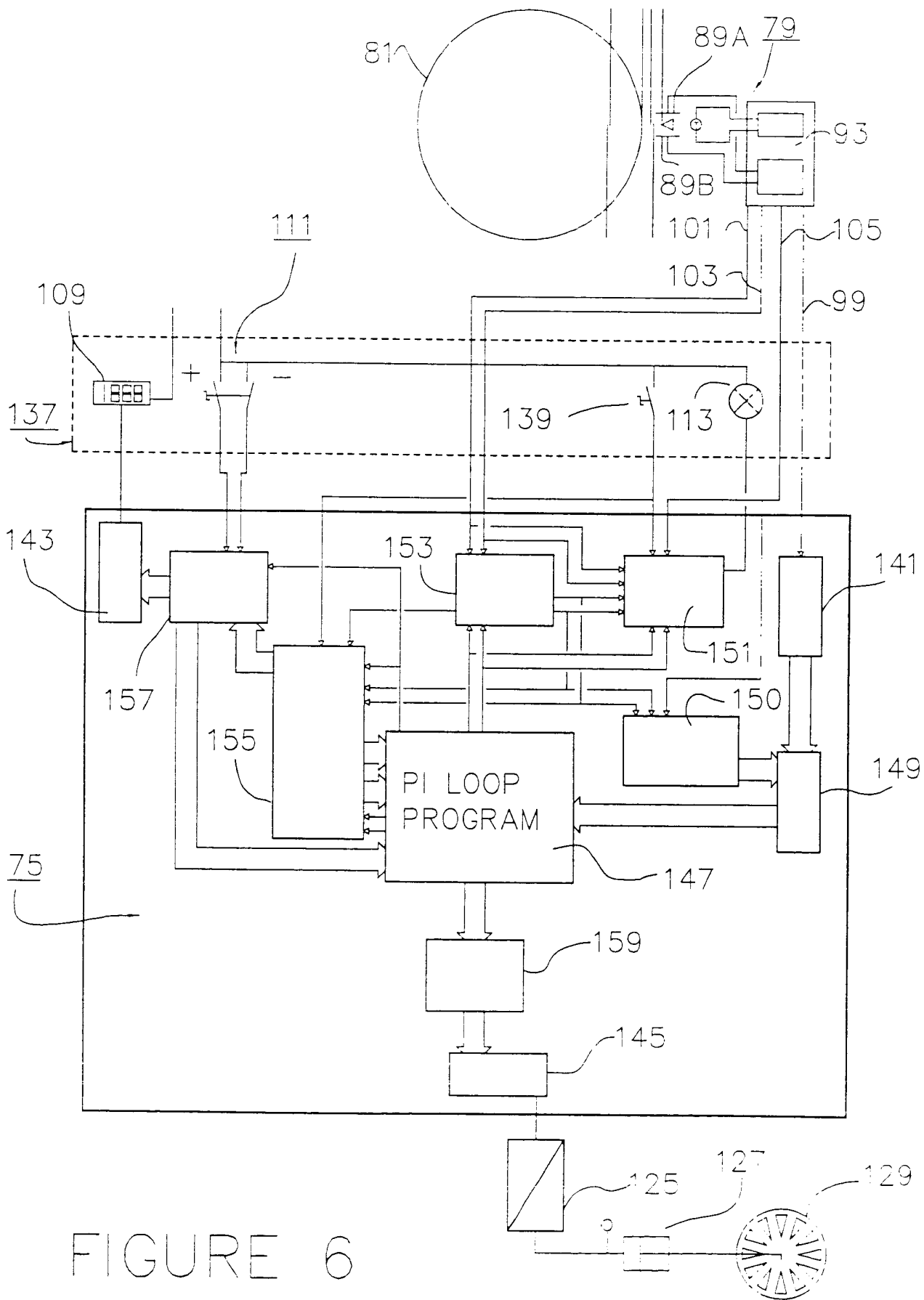


FIGURE 6

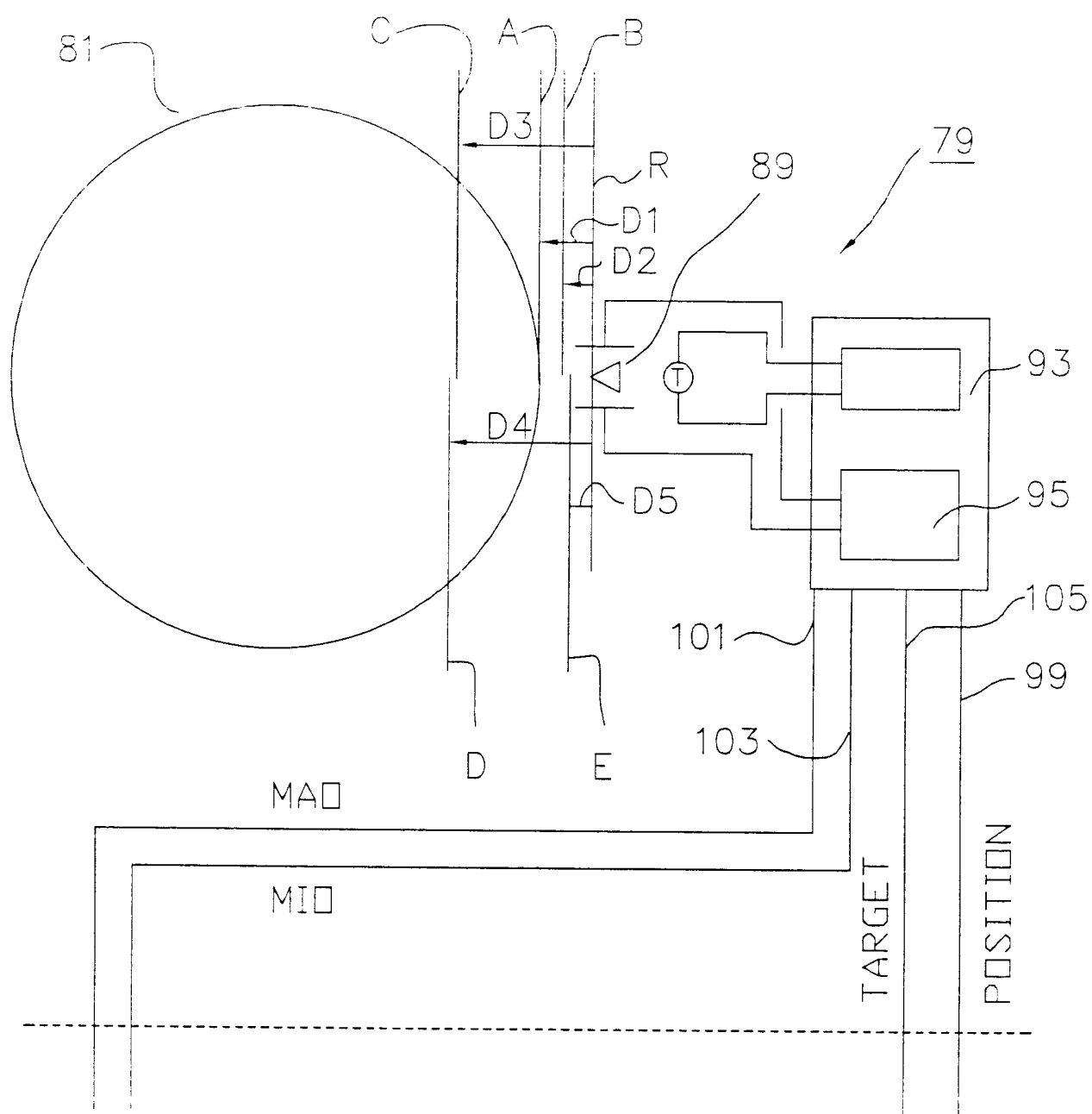


FIGURE 7A

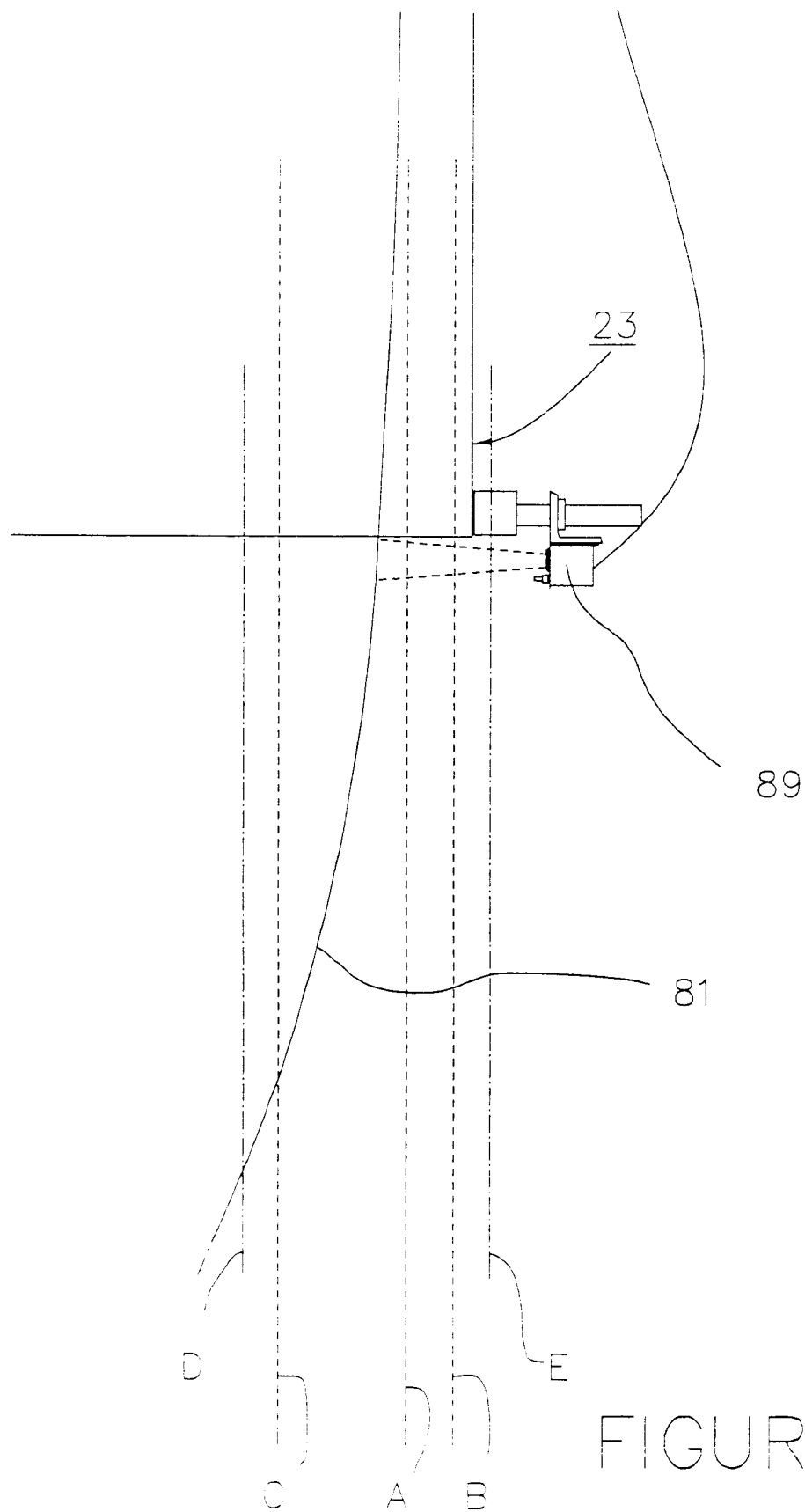


FIGURE 7B

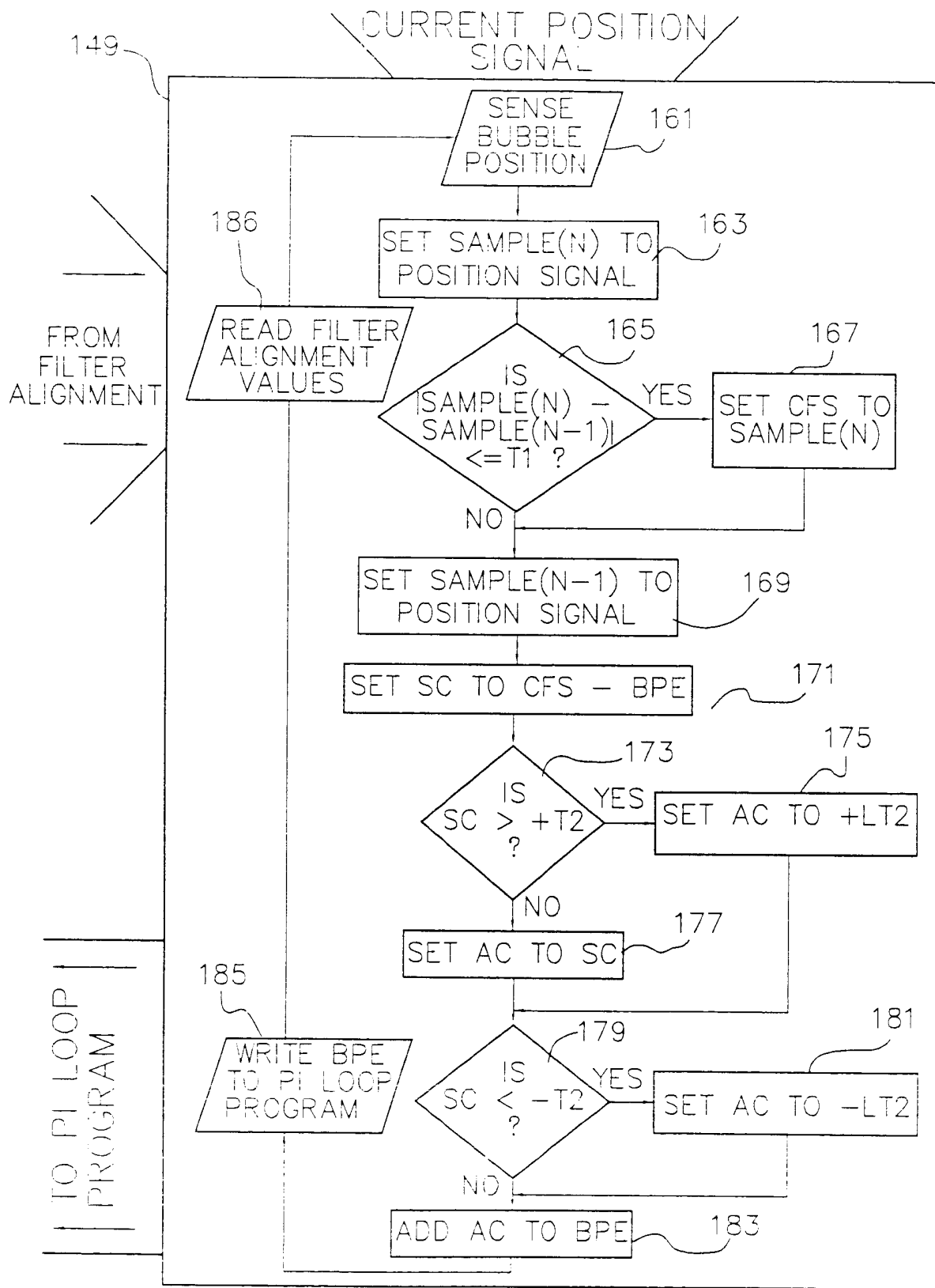
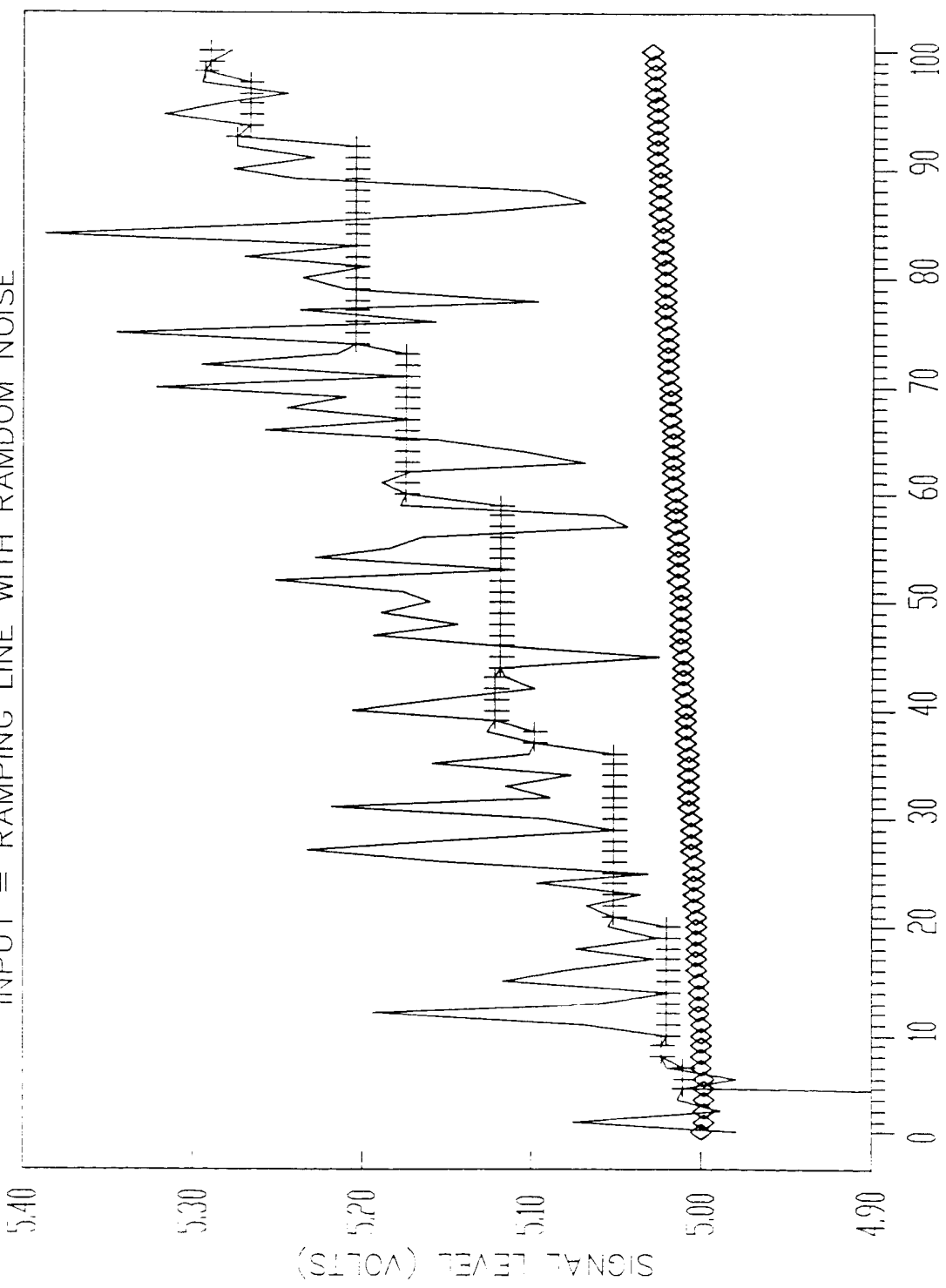


FIGURE 8A

IS-IBC1 FILTER SIMULATION

INPUT = RAMPING LINE WITH RANDOM NOISE



TIME SAMPLE (.034 SECONDS)

-INPUT +CFS BPE

FIGURE 8B

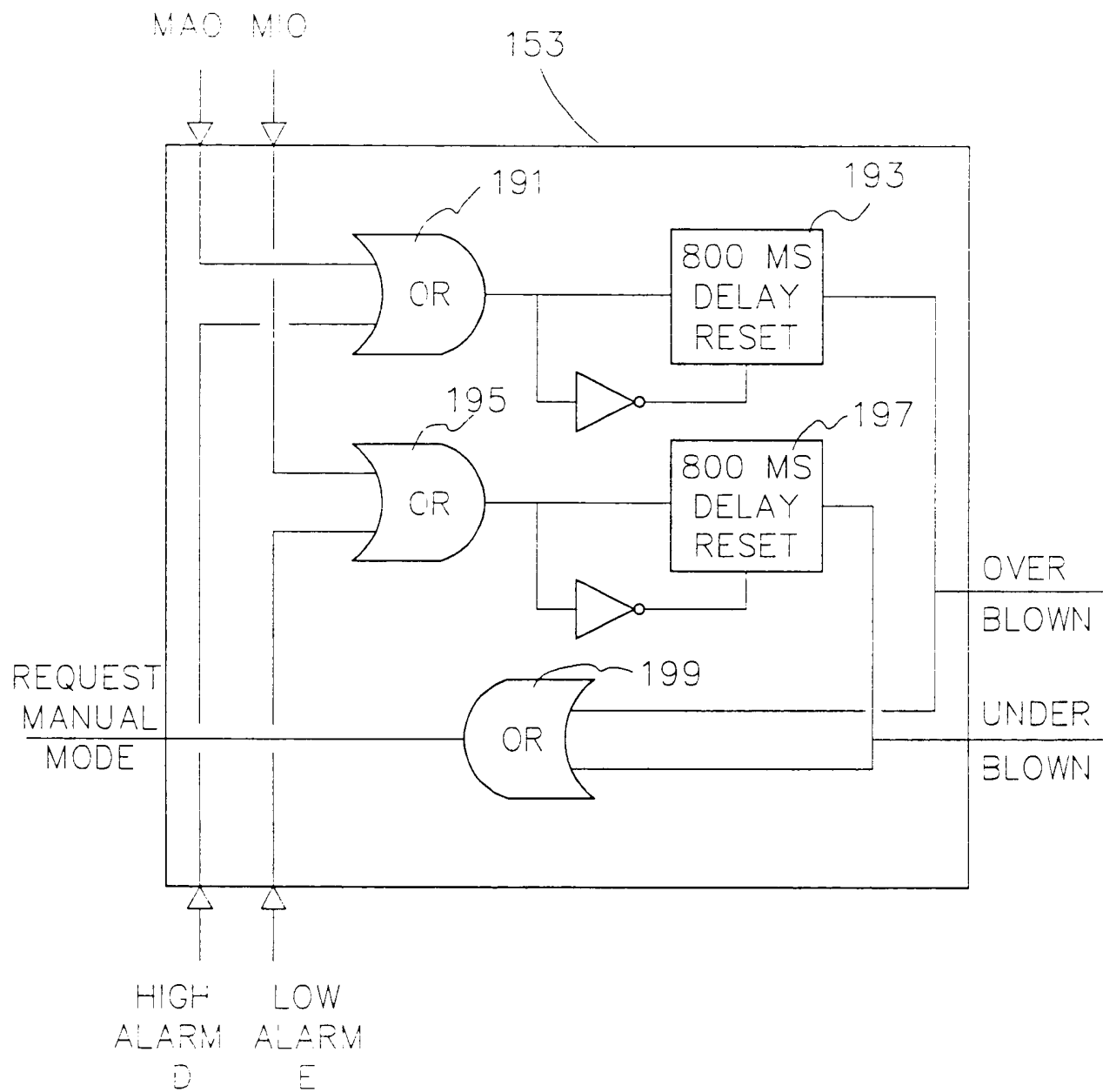


FIGURE 9

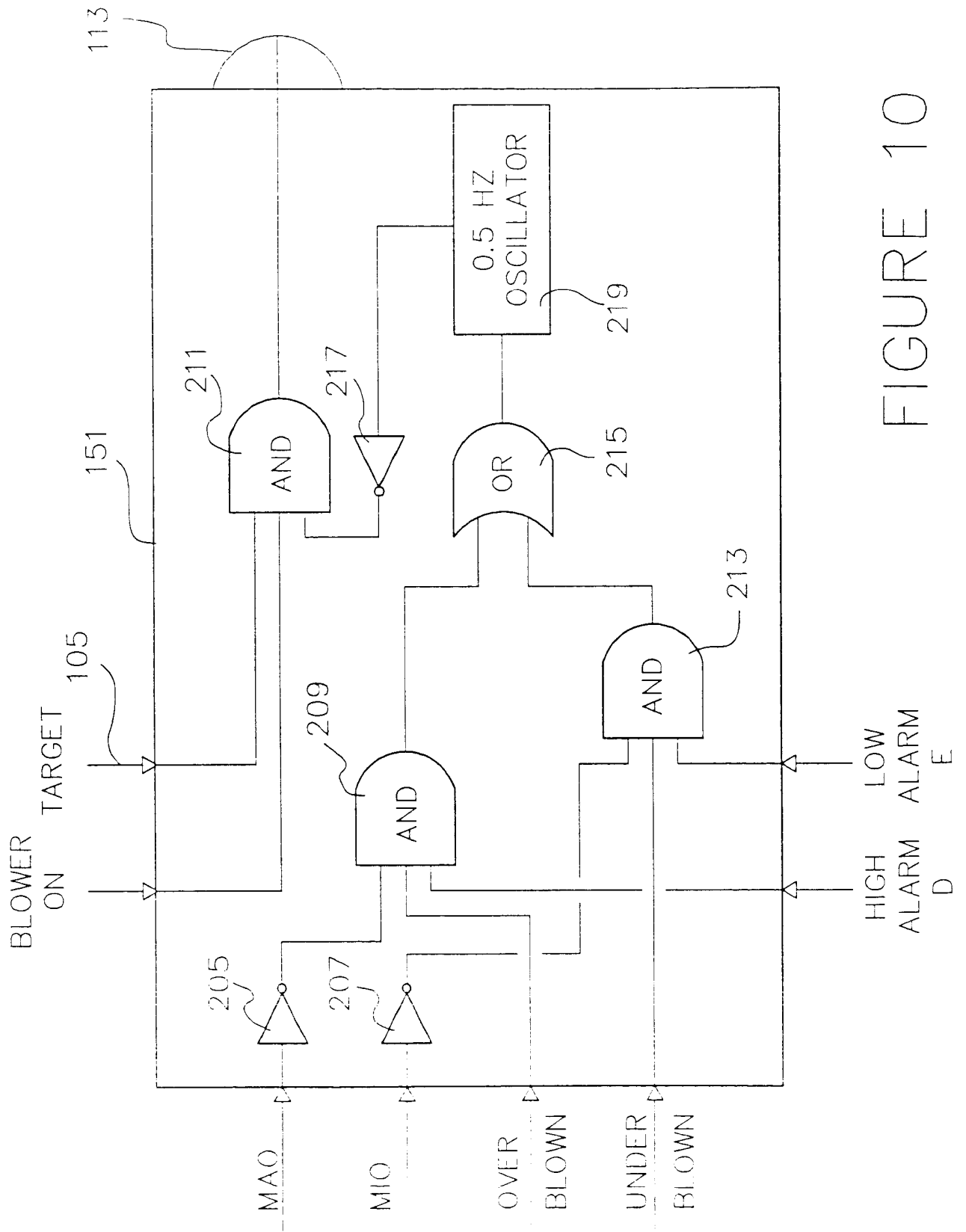


FIGURE 10

155

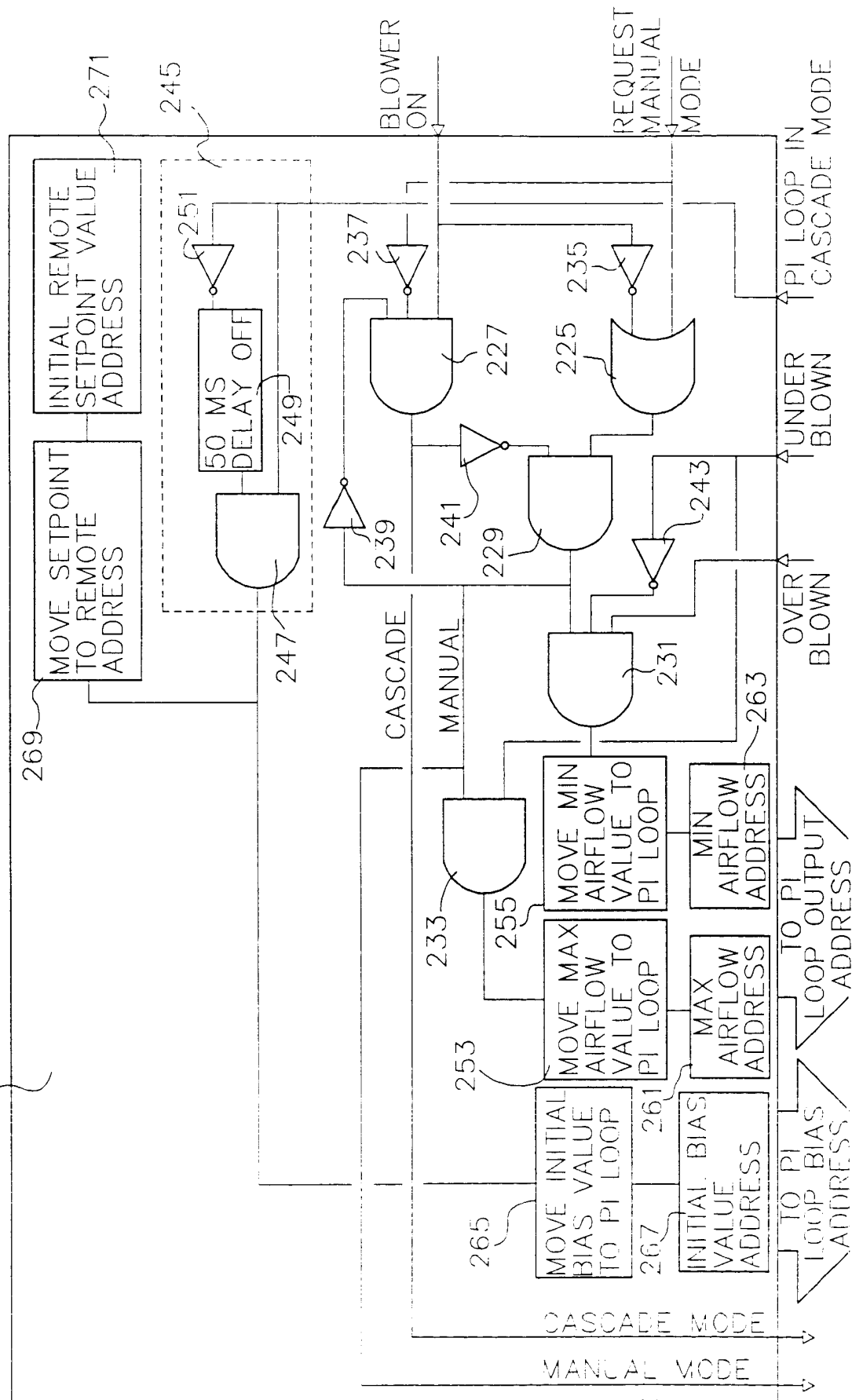


FIGURE 11

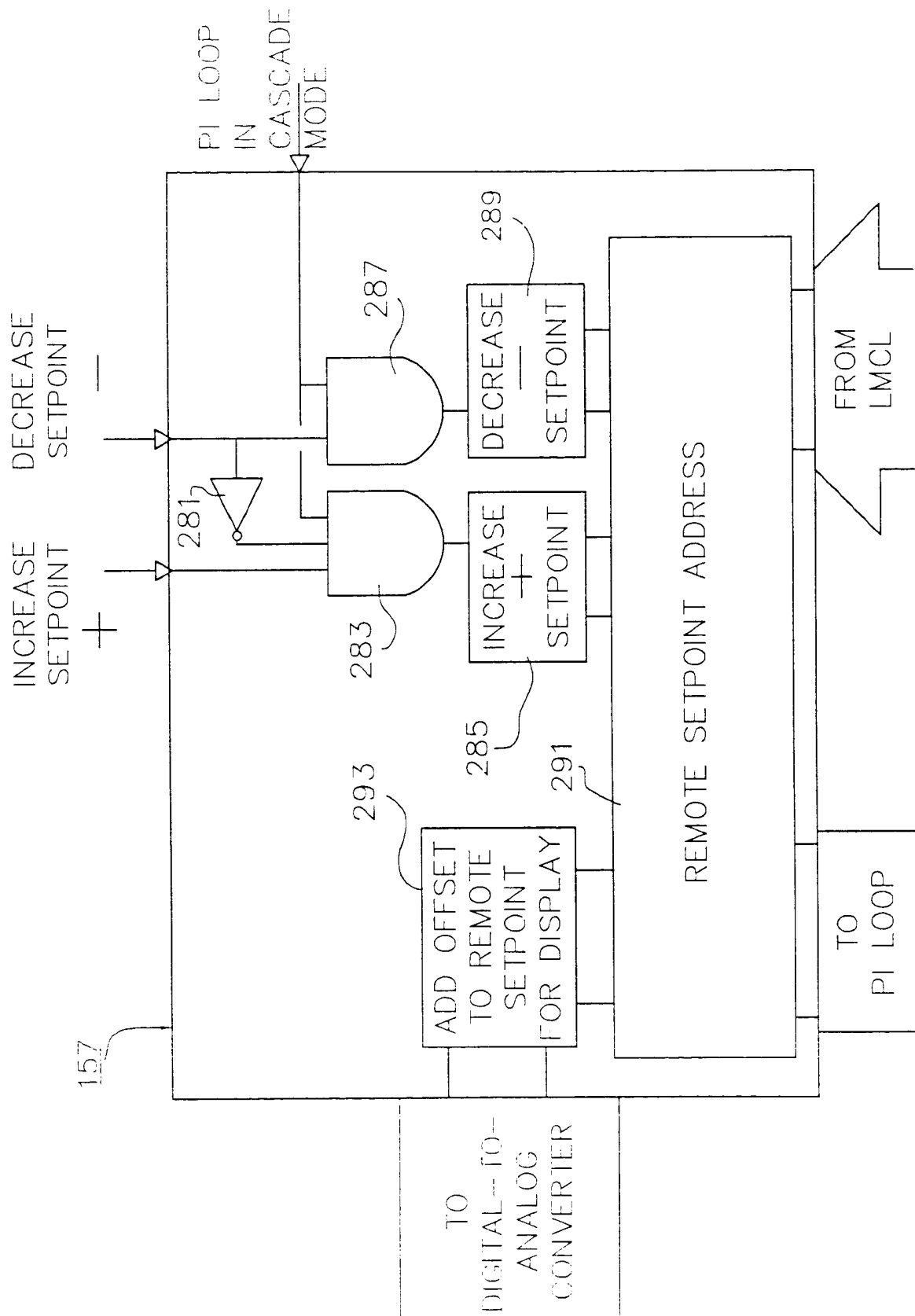


FIGURE 12

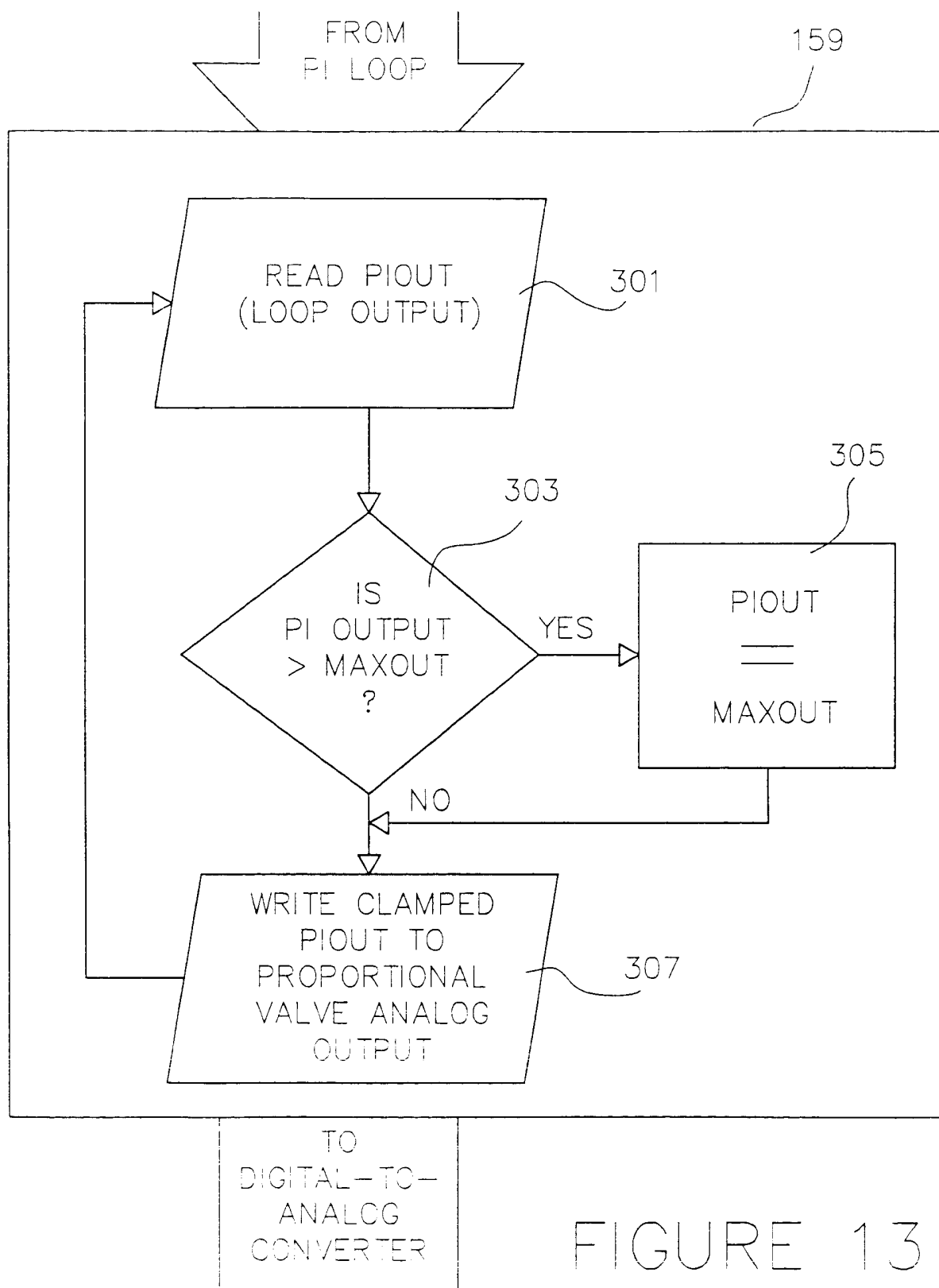


FIGURE 13

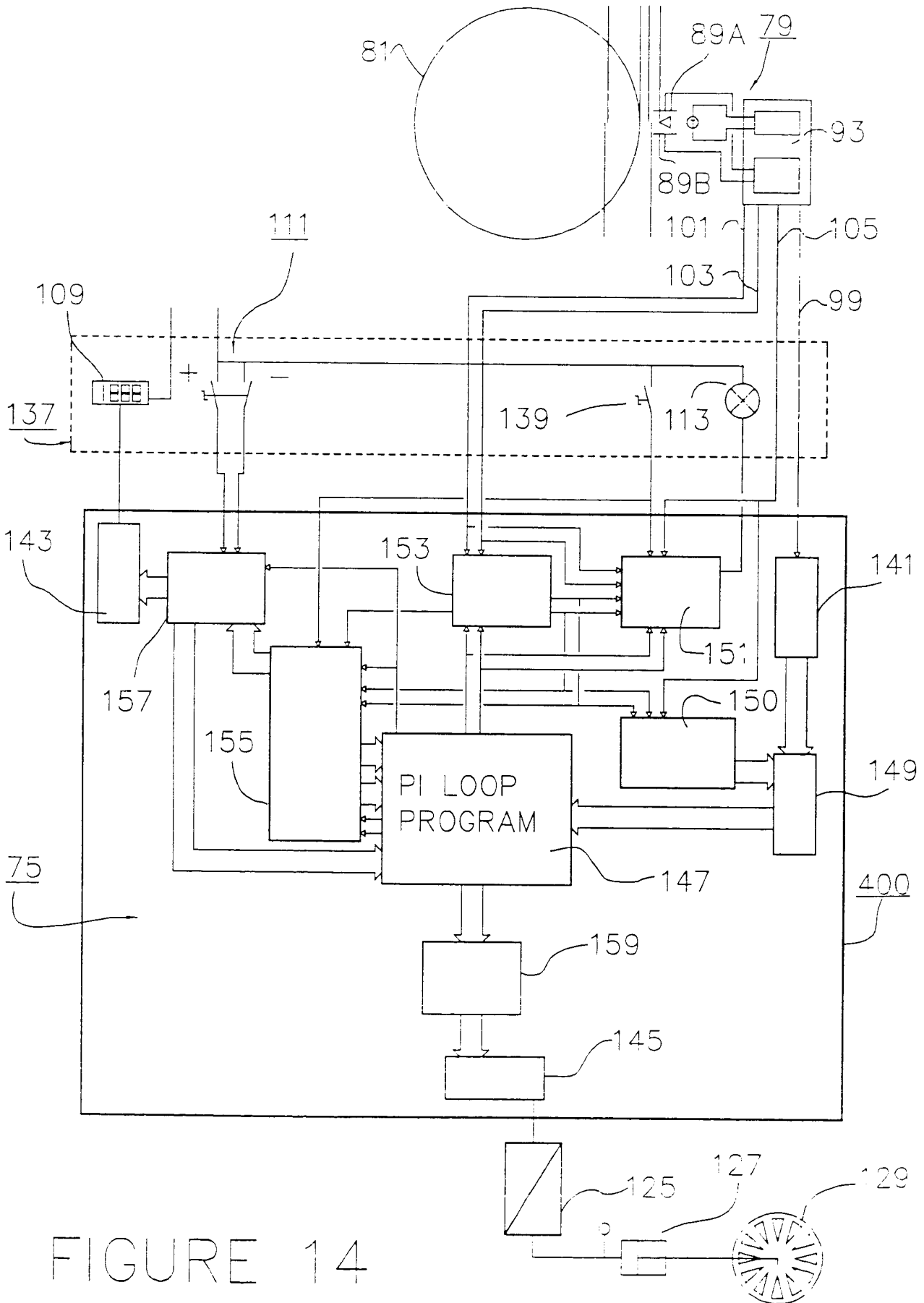


FIGURE 14

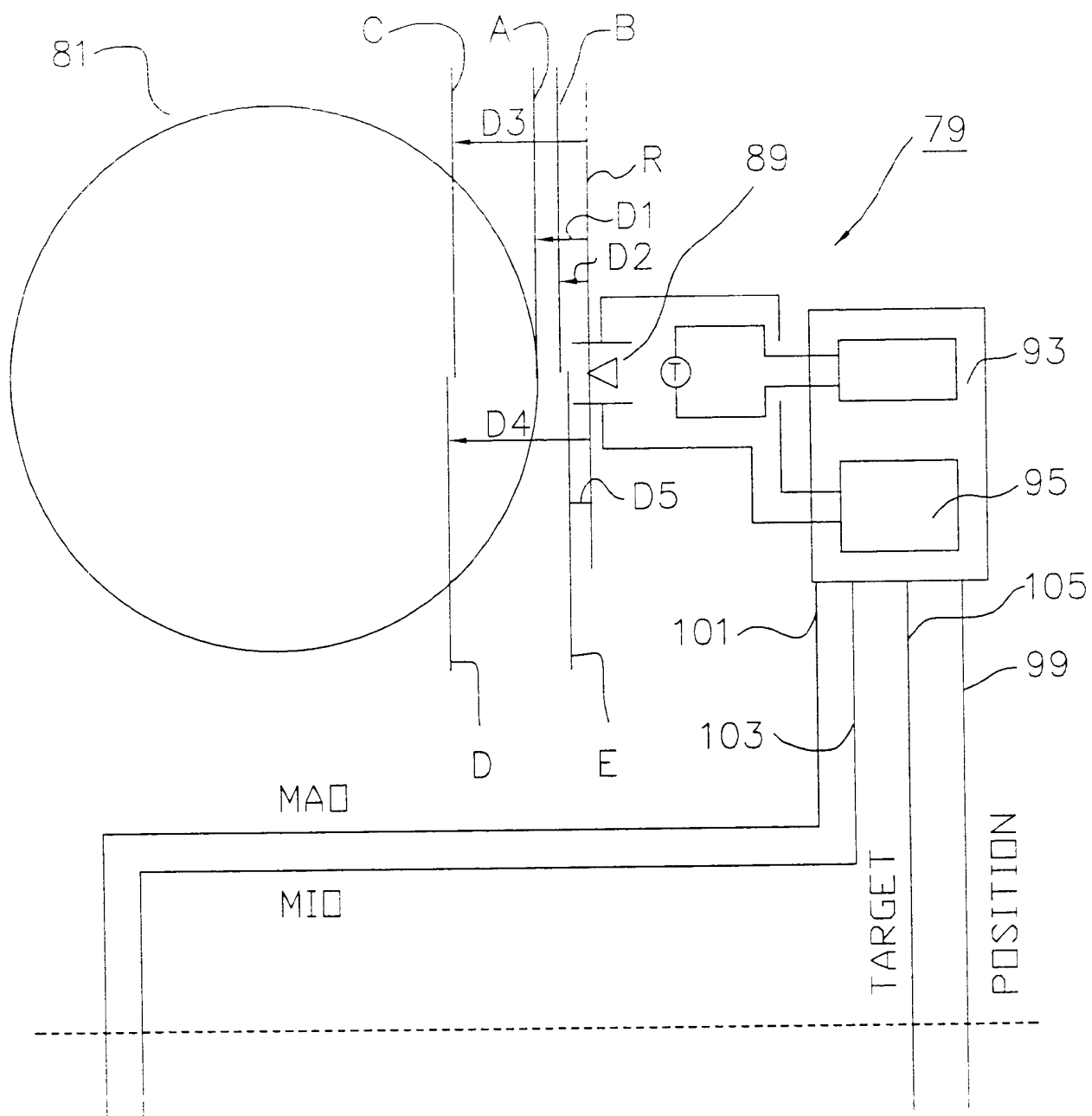


FIGURE 15

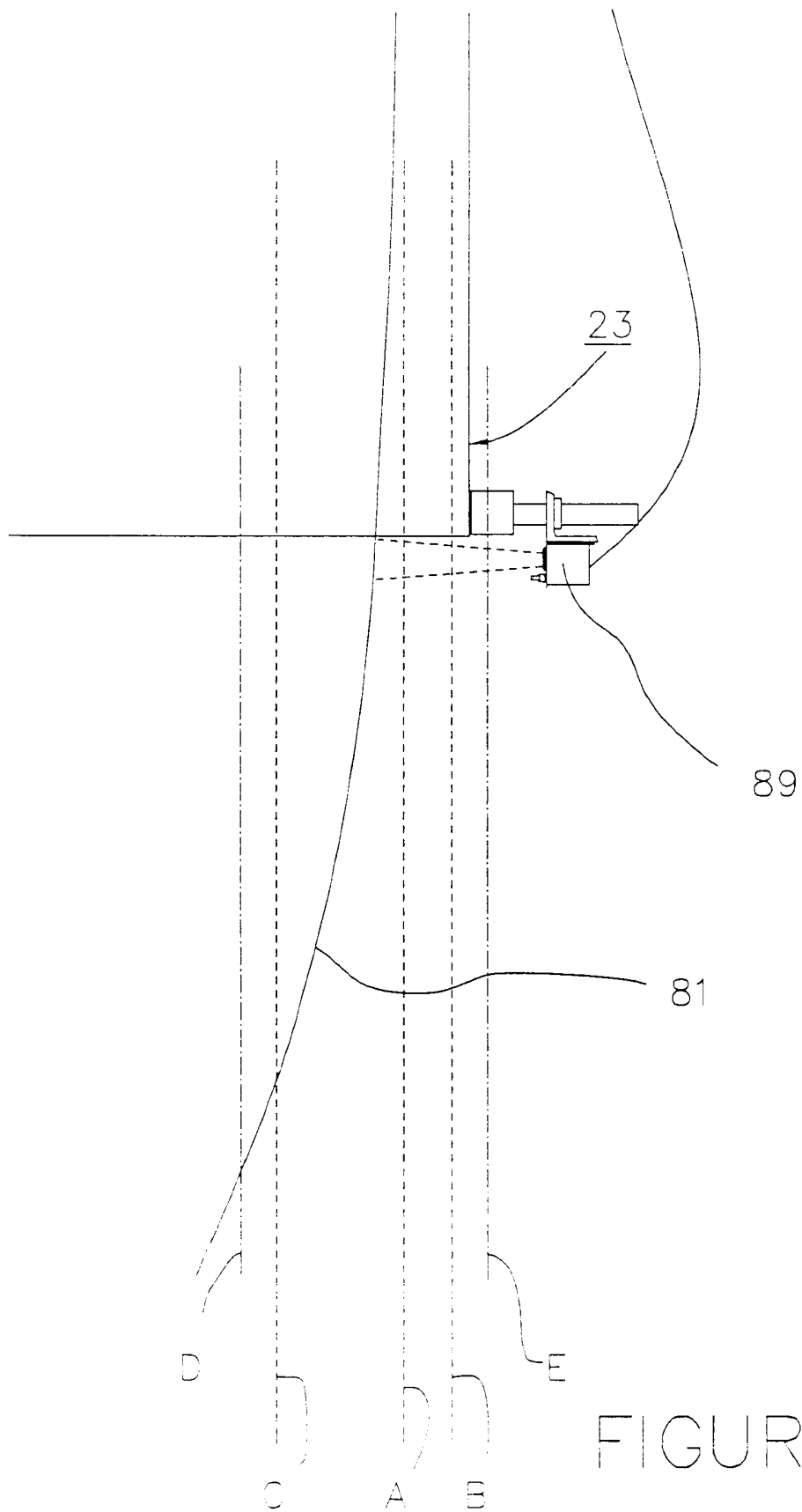


FIGURE 16

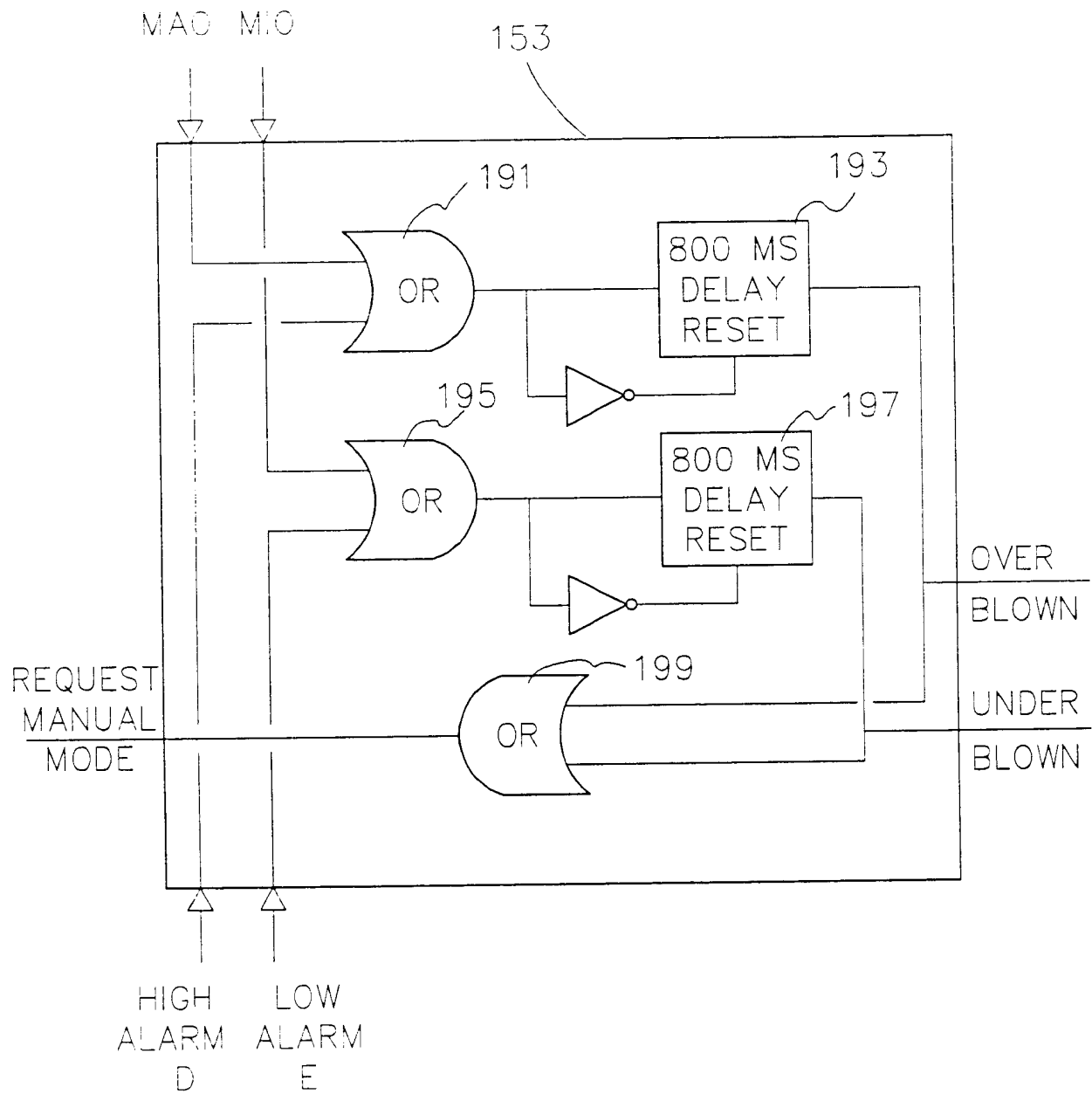


FIGURE 17

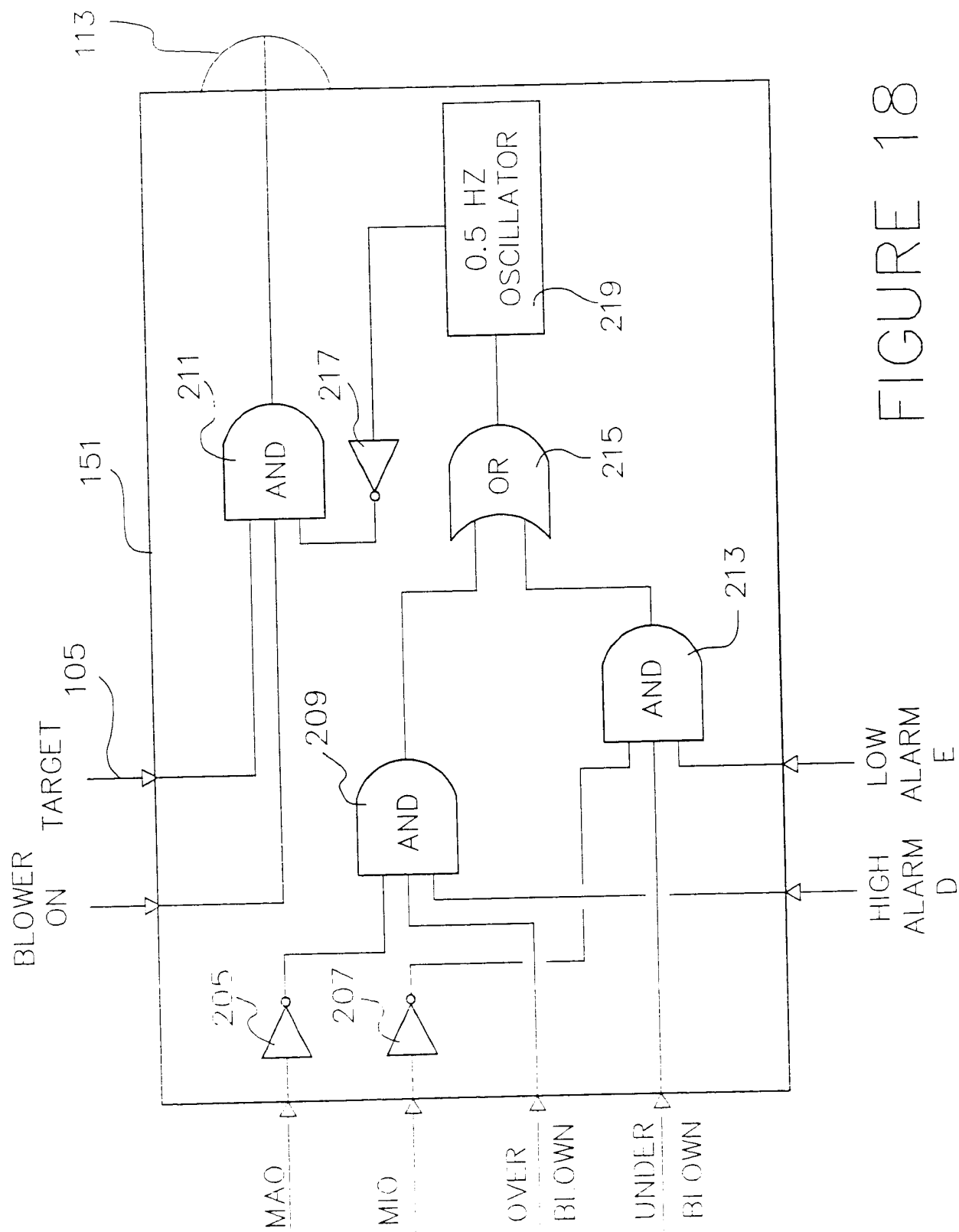


FIGURE 18

155

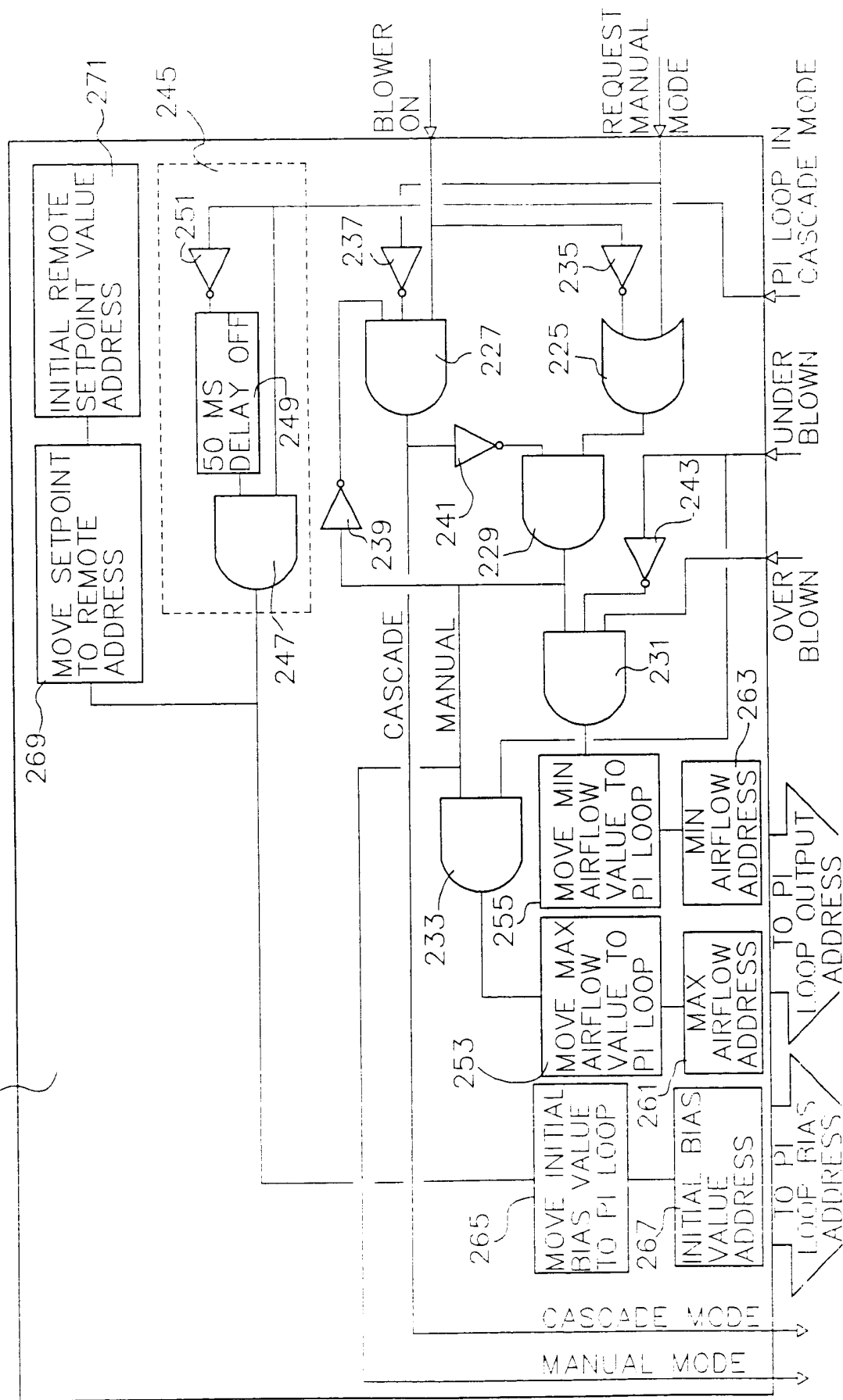


FIGURE 19

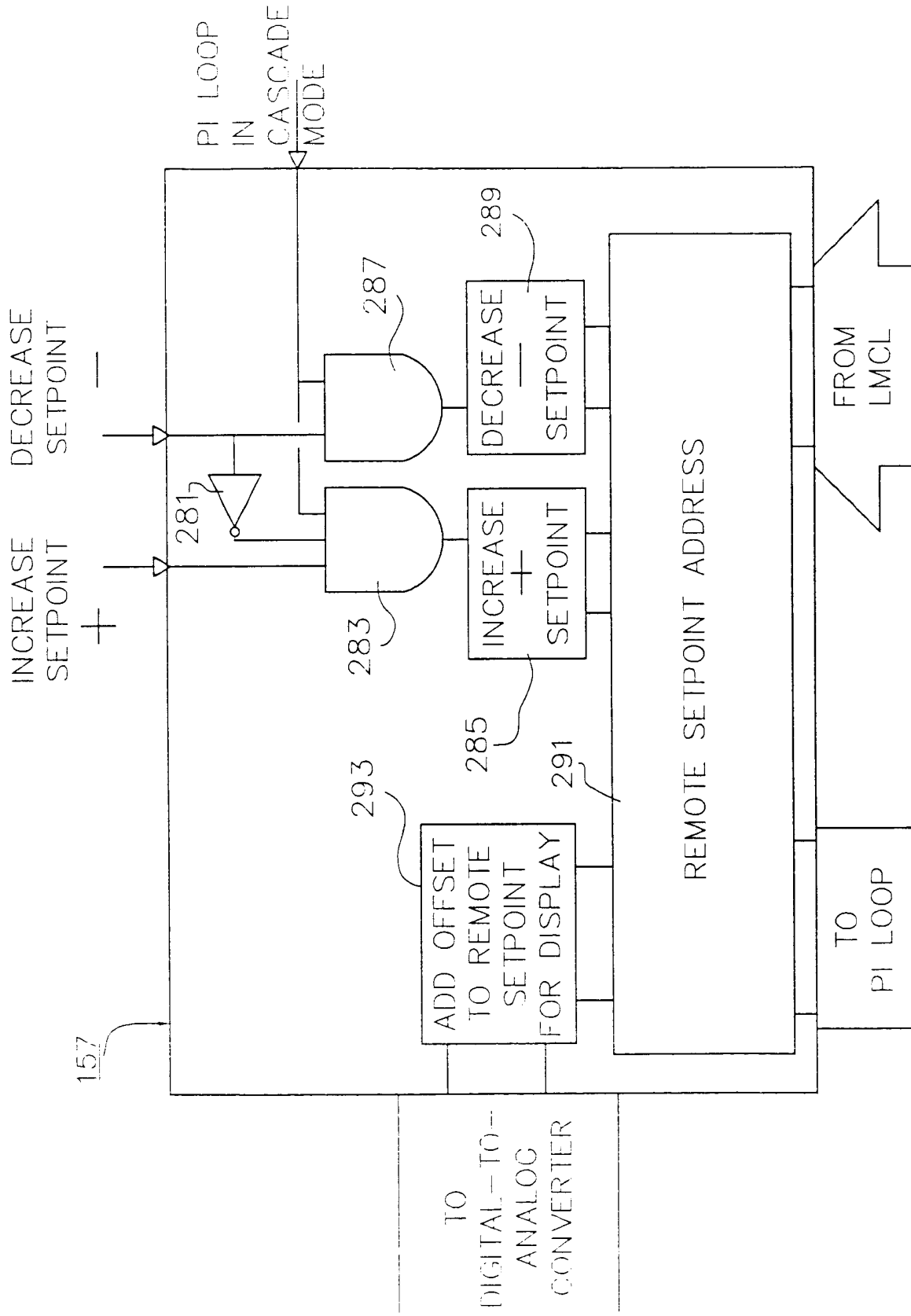


FIGURE 20

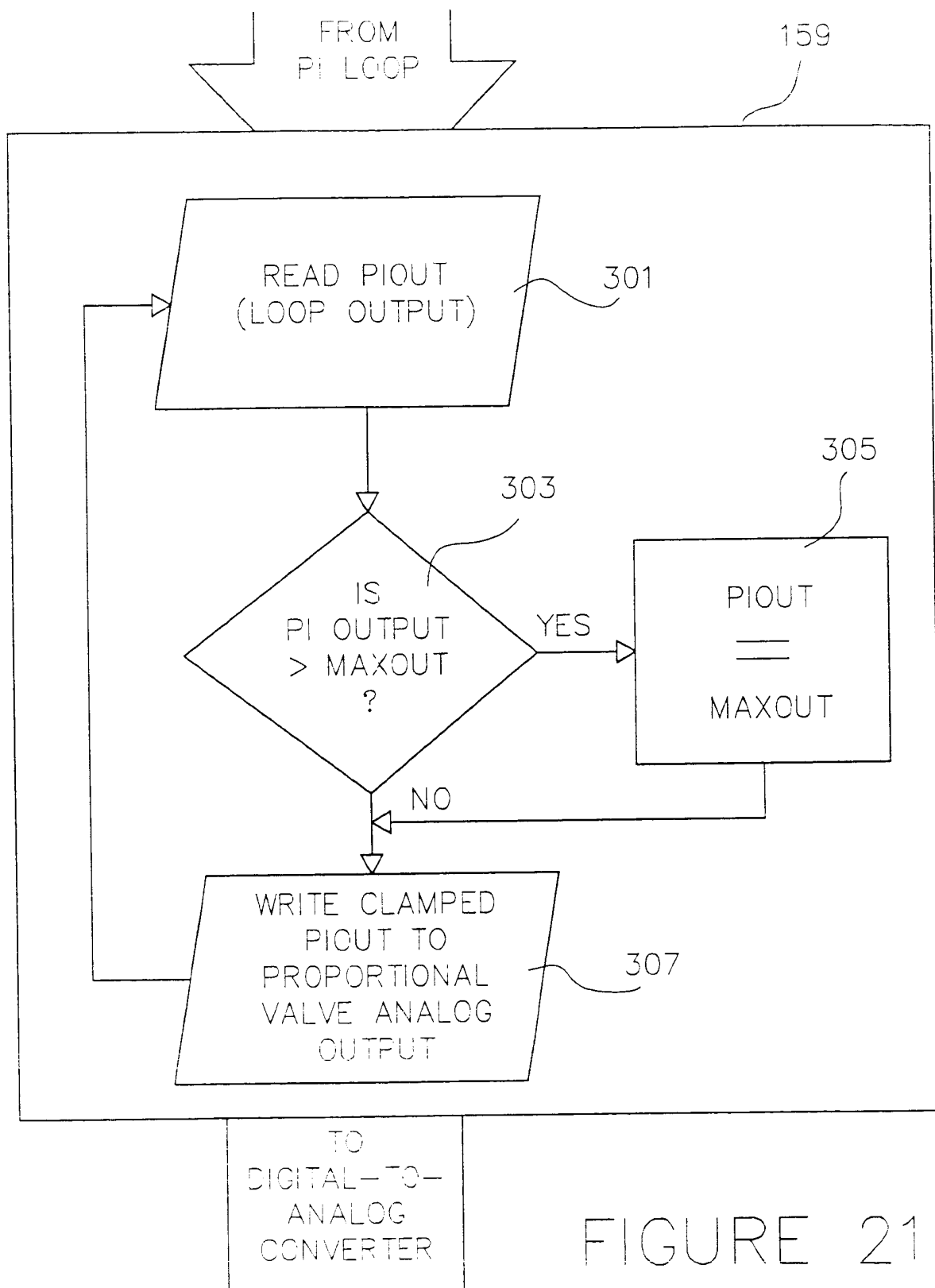


FIGURE 21

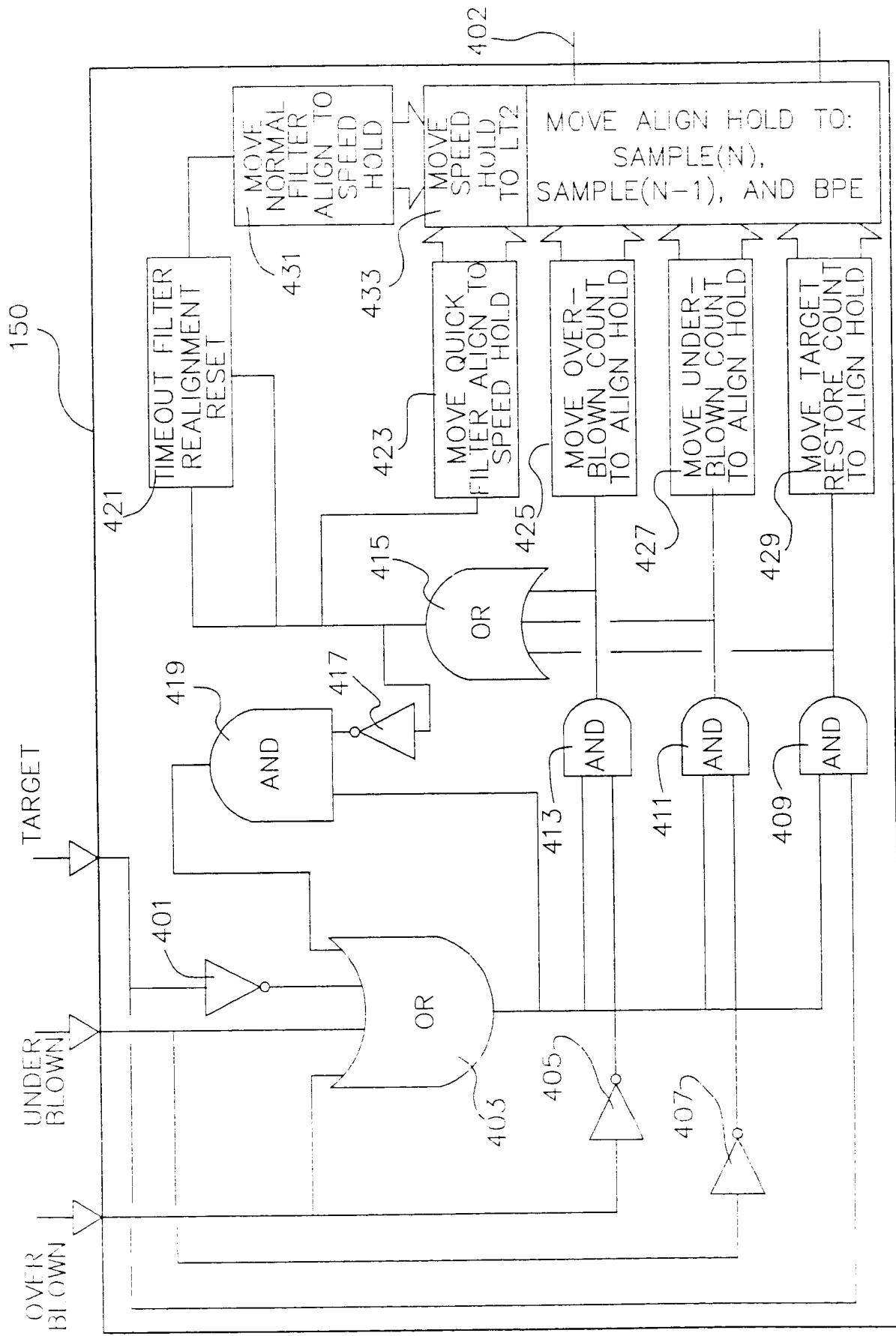
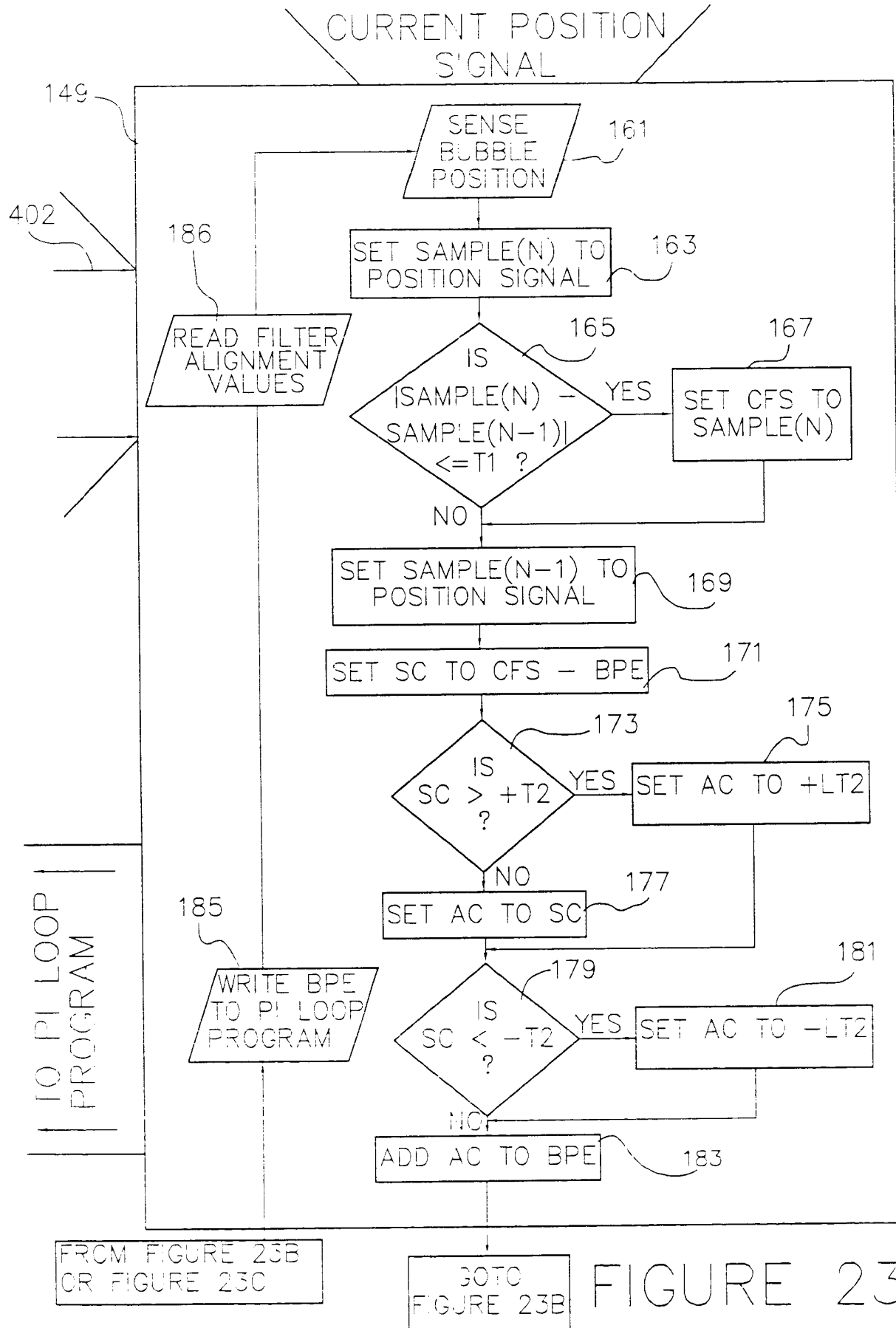


FIGURE 22



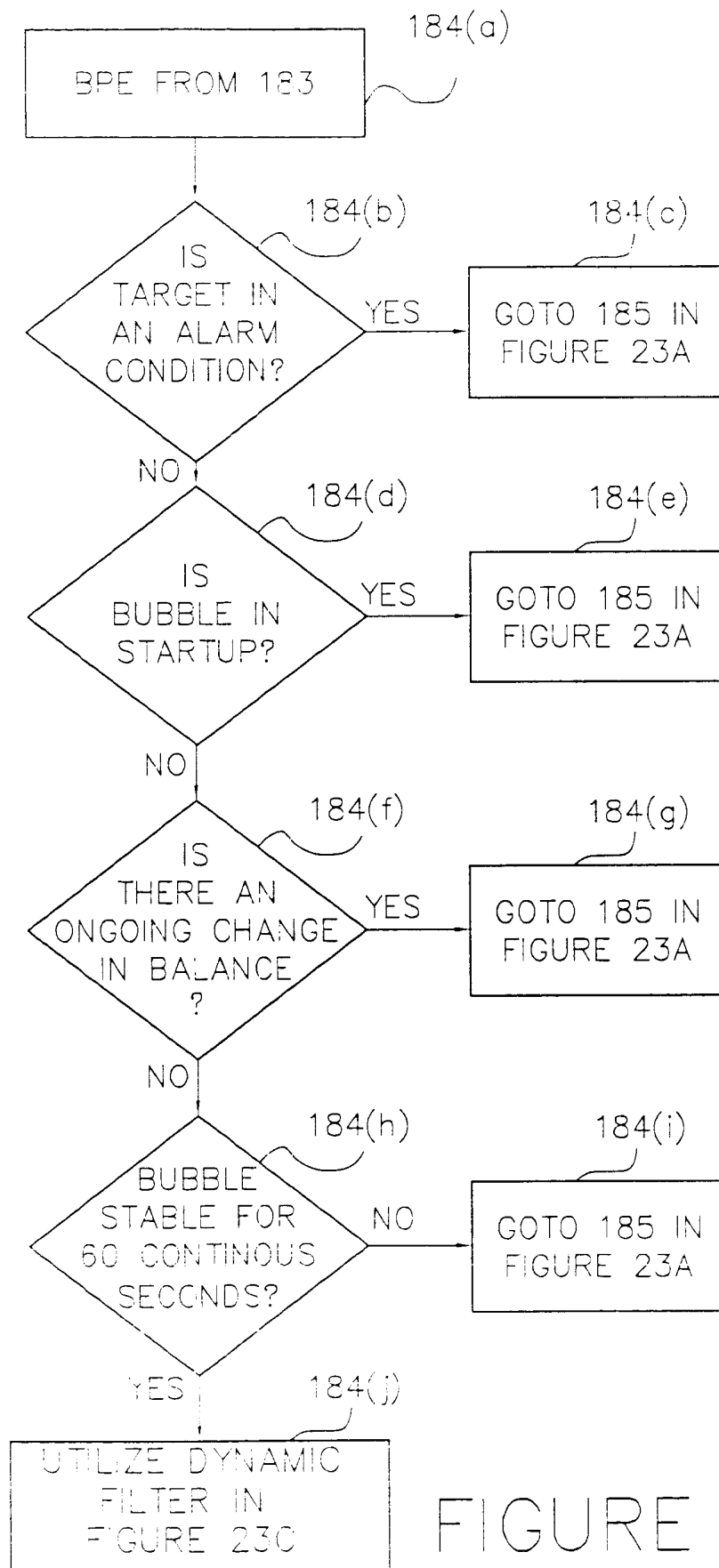


FIGURE 23B

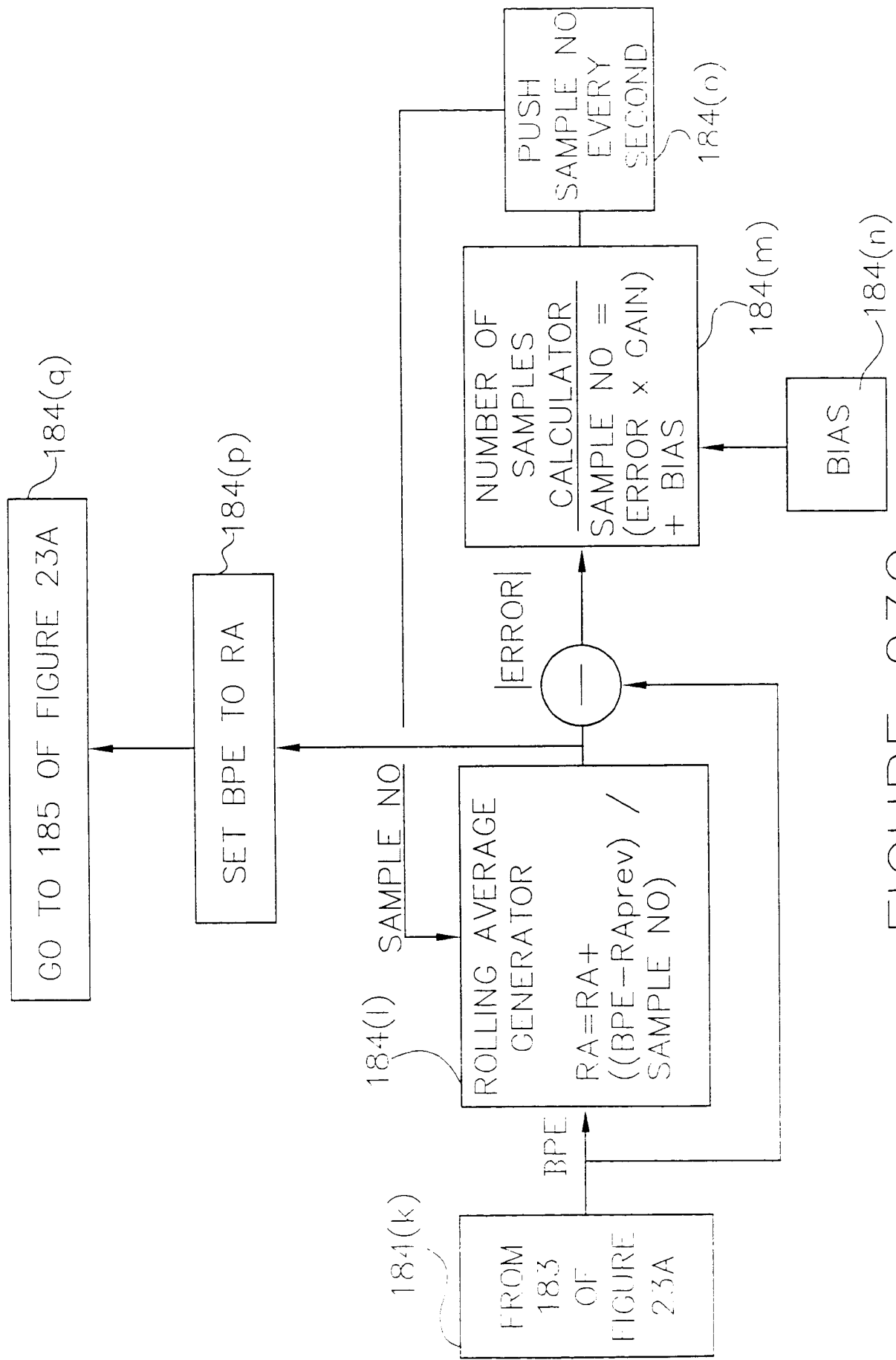


FIGURE 23C

VARIOUS IBC SIGNALS WITHOUT DYNAMIC FILTER

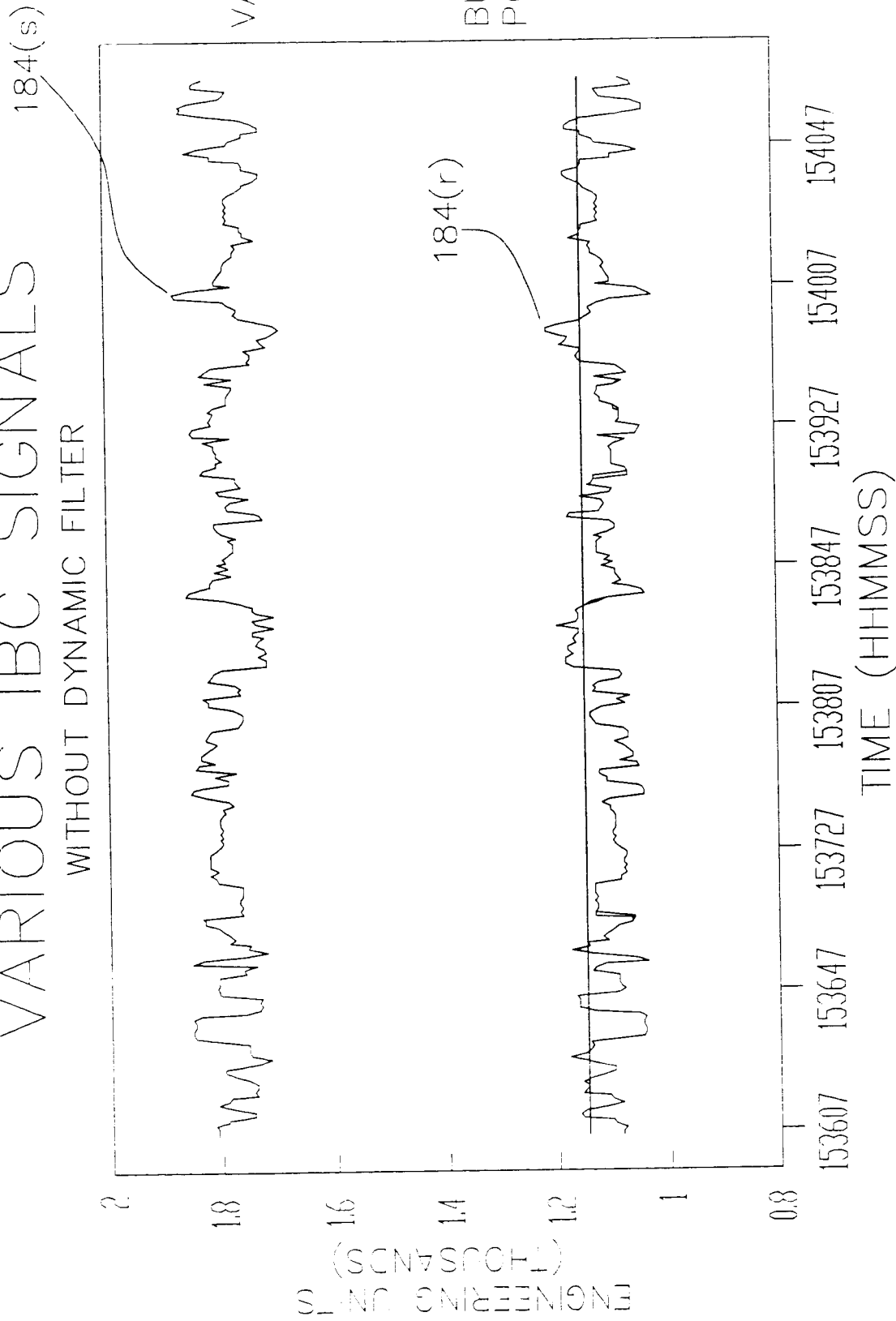


FIGURE 23D

VARIOUS IBC SIGNALS

DYNAMIC FILTER COMPARISON

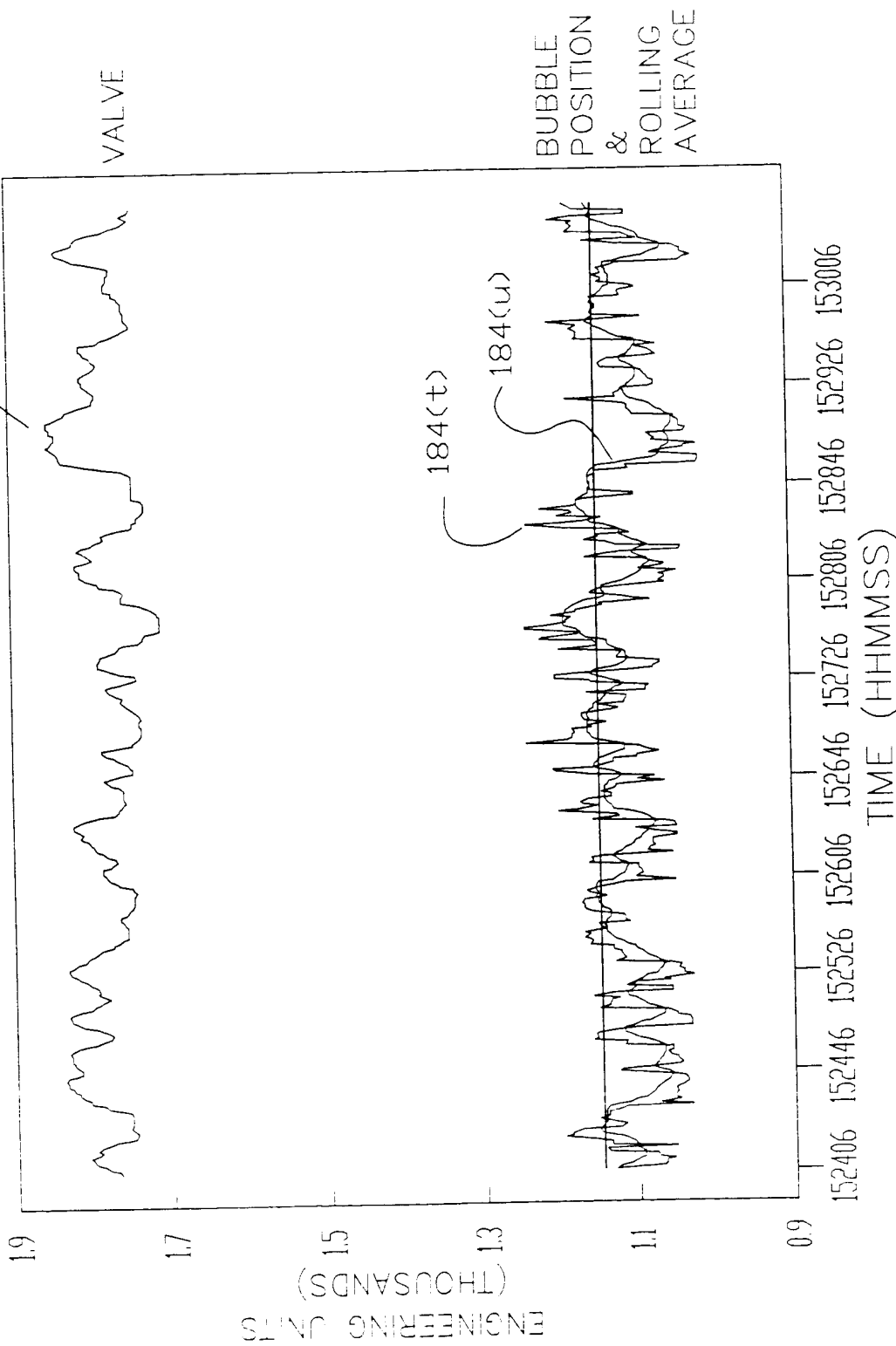


FIGURE 23E

FREQUENCY DISTRIBUTION COMPARISON

DYNAMIC FILTER VS. BPE

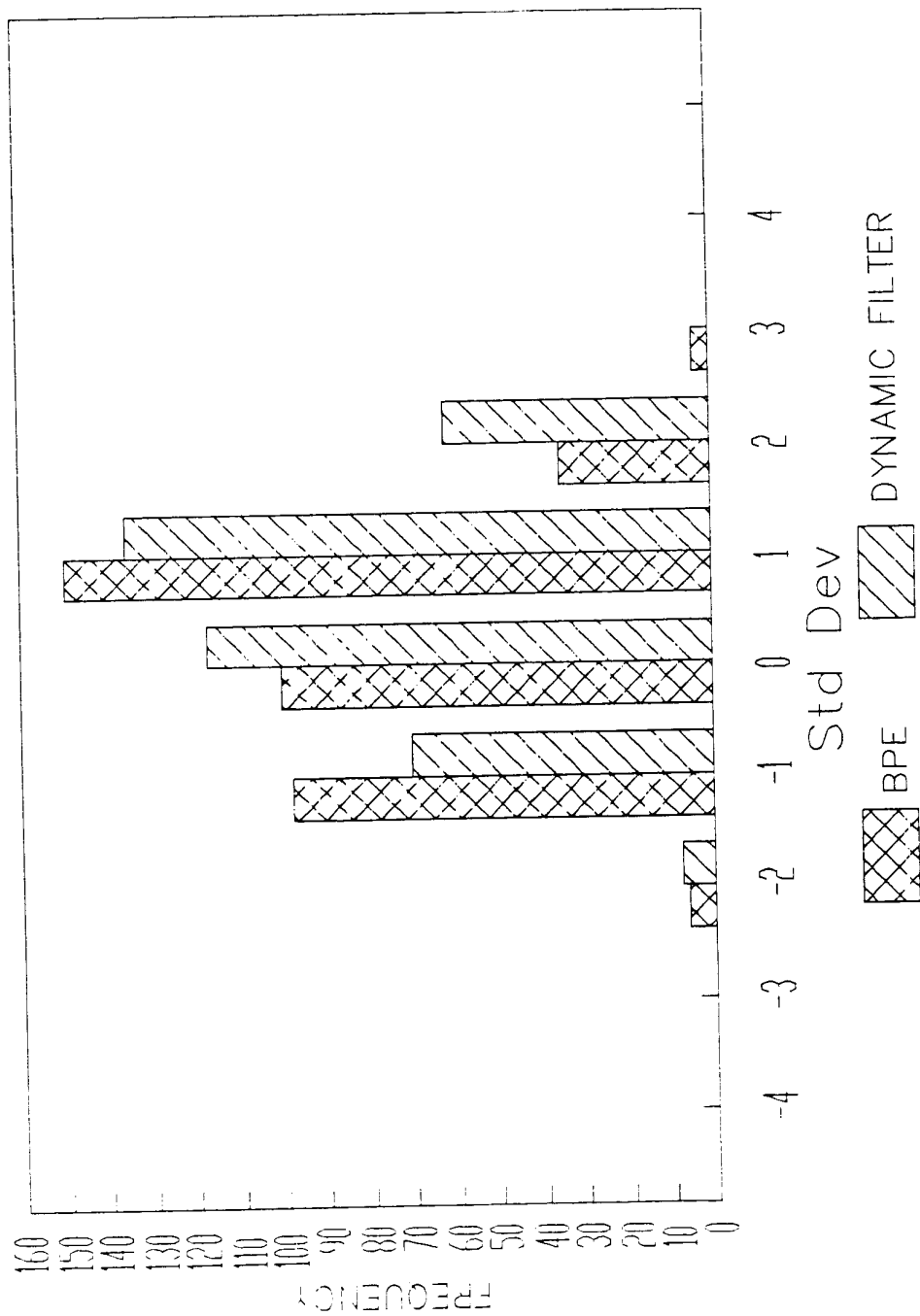


FIGURE 23F

TOP SECRET

VARIOUS IBC SIGNALS START-UP WITH DYNAMIC FILTER

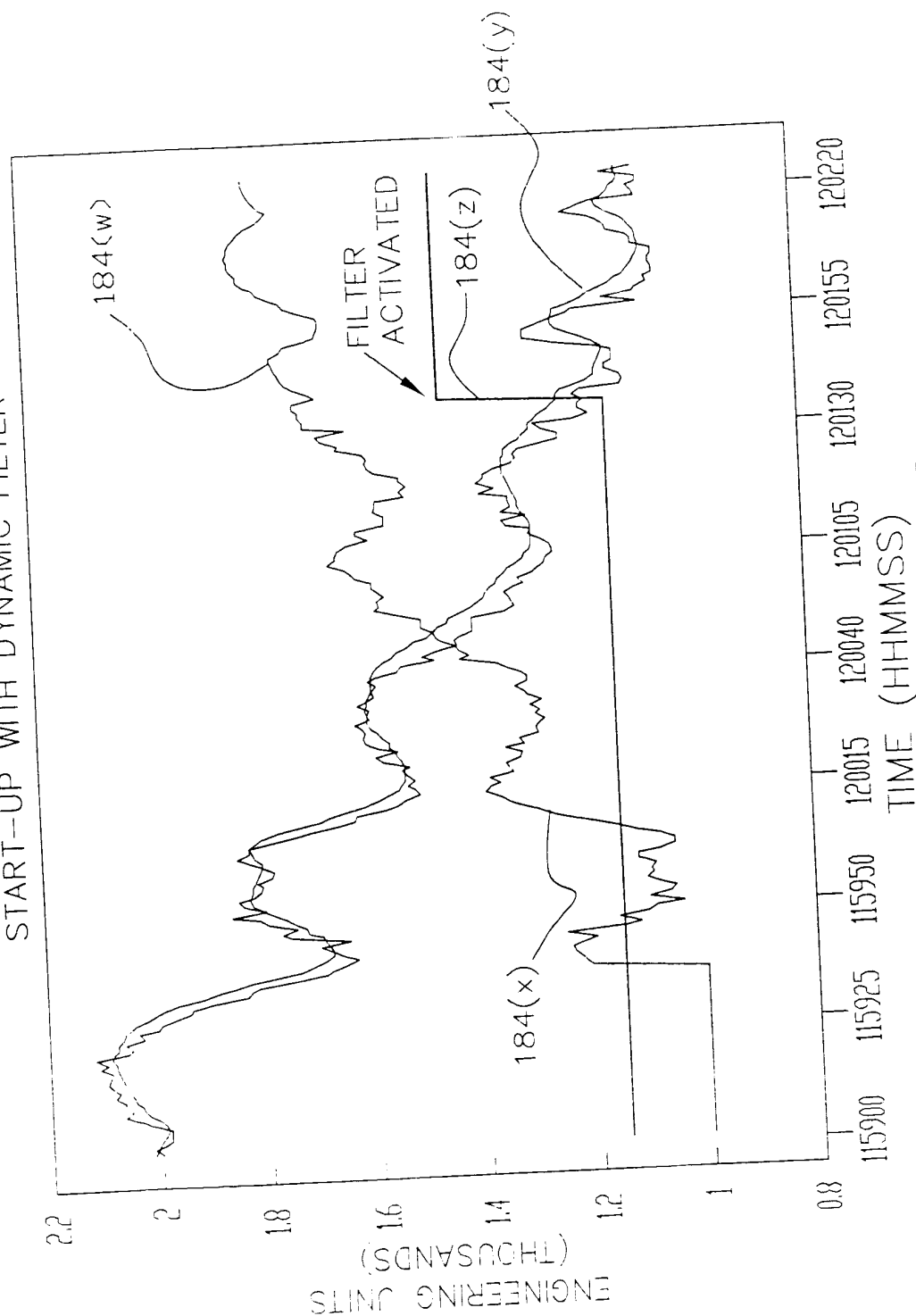
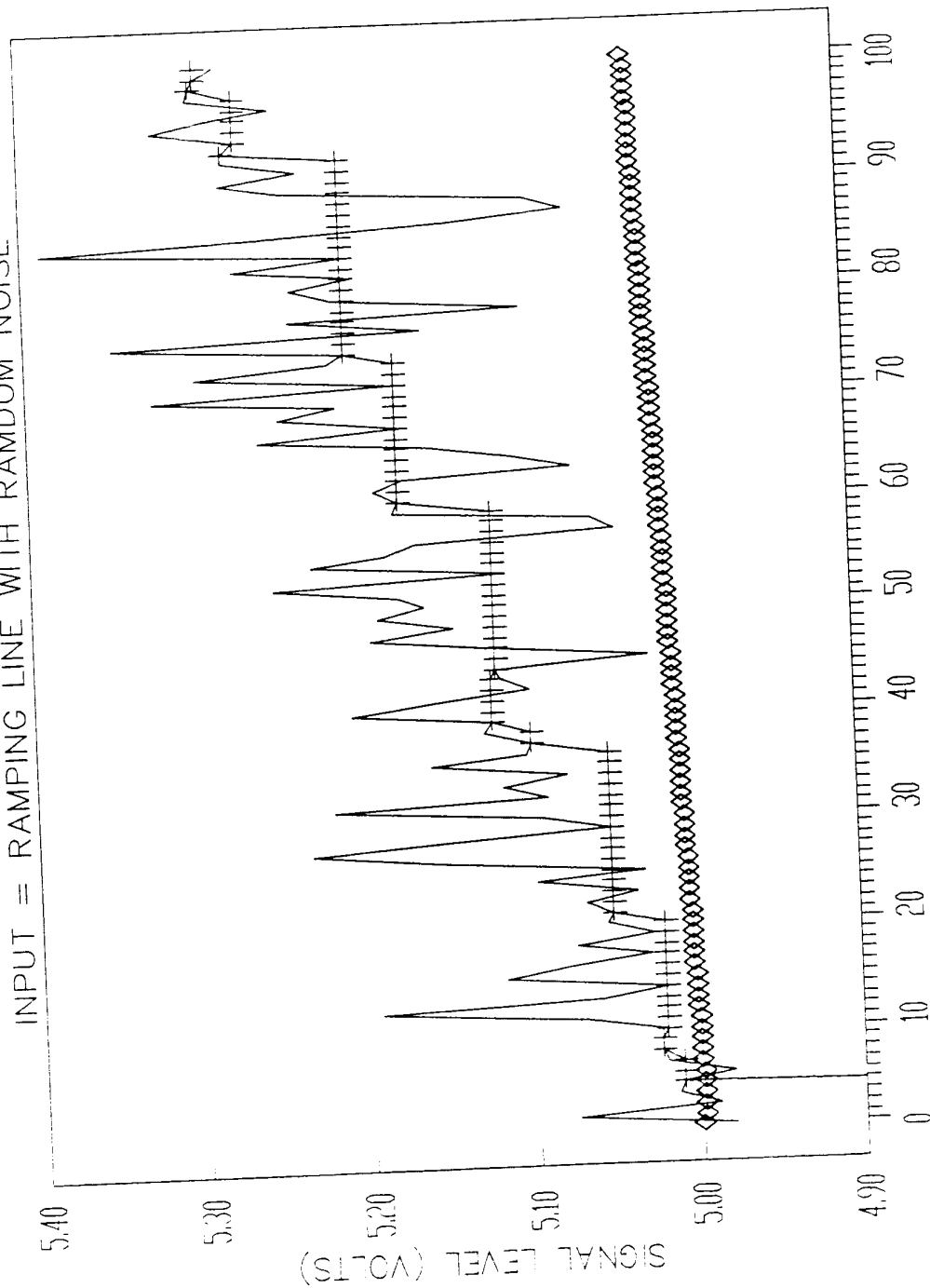


FIGURE 23G

IS-IBC1 FILTER SIMULATION

INPUT = RAMPING LINE WITH RANDOM NOISE



TIME SAMPLE (.034 SECONDS)

—INPUT +CFS ◇BPE

FIGURE 24

FIGURE 25A

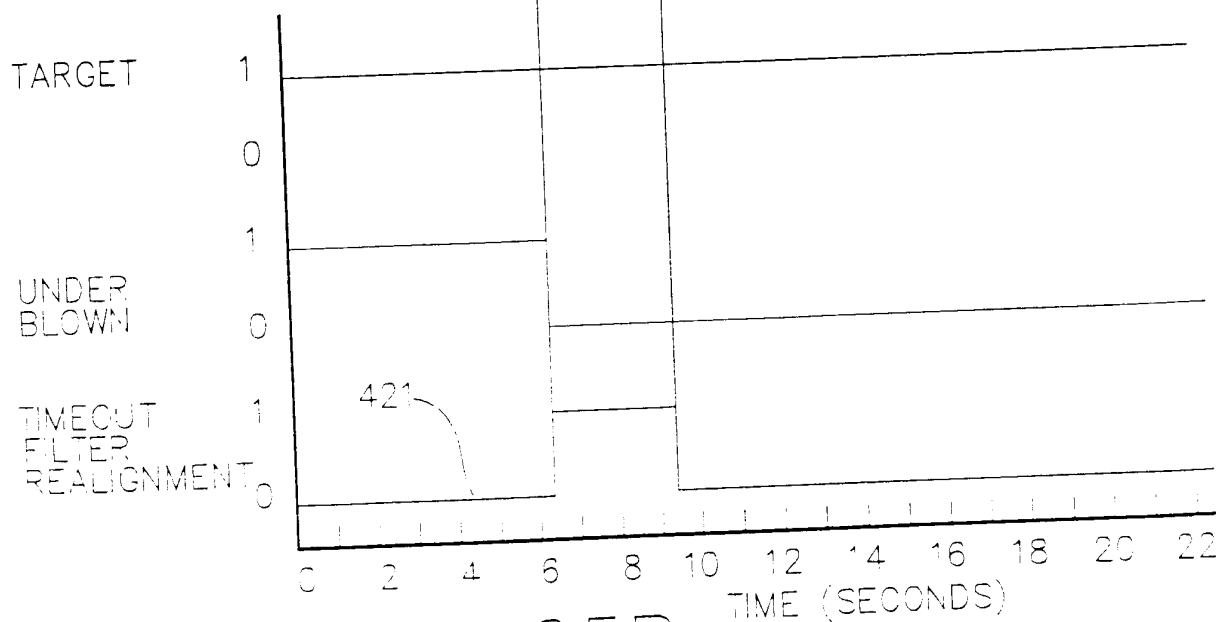
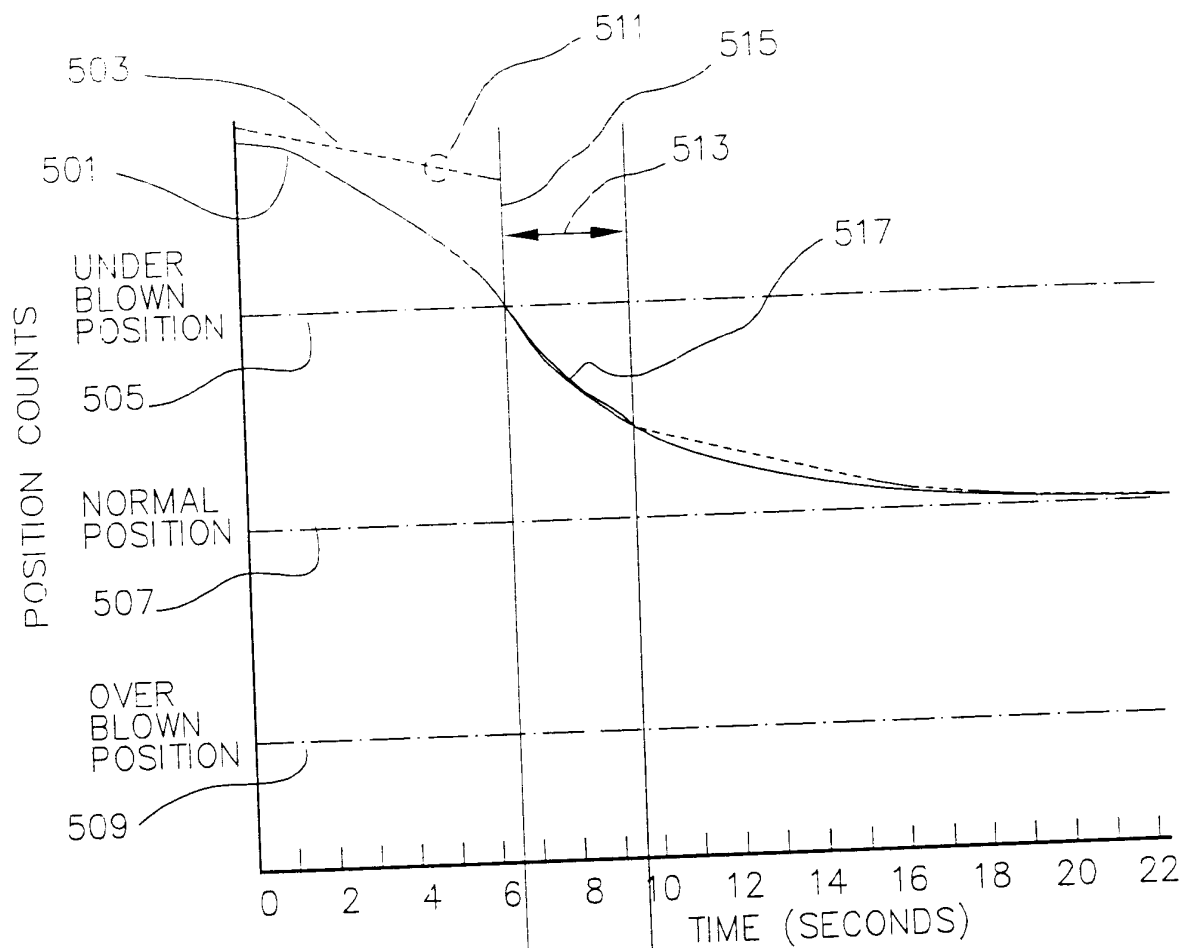


FIGURE 25B

FIGURE 26A

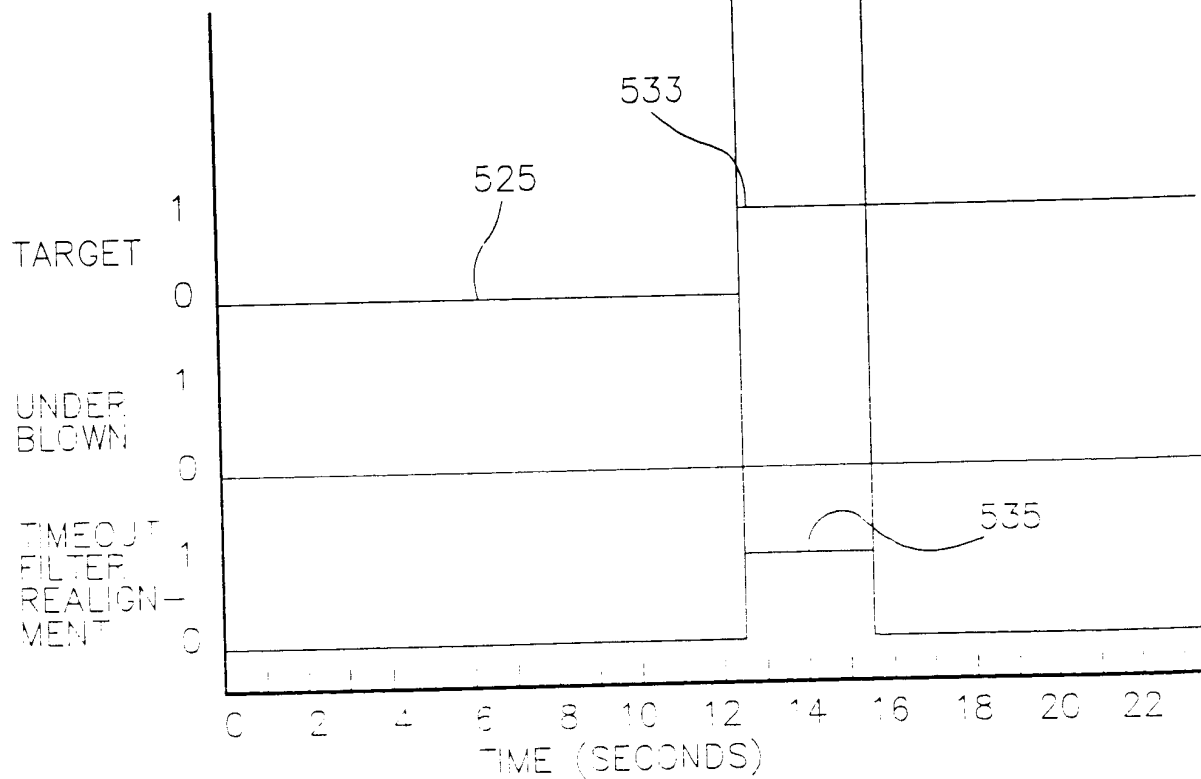
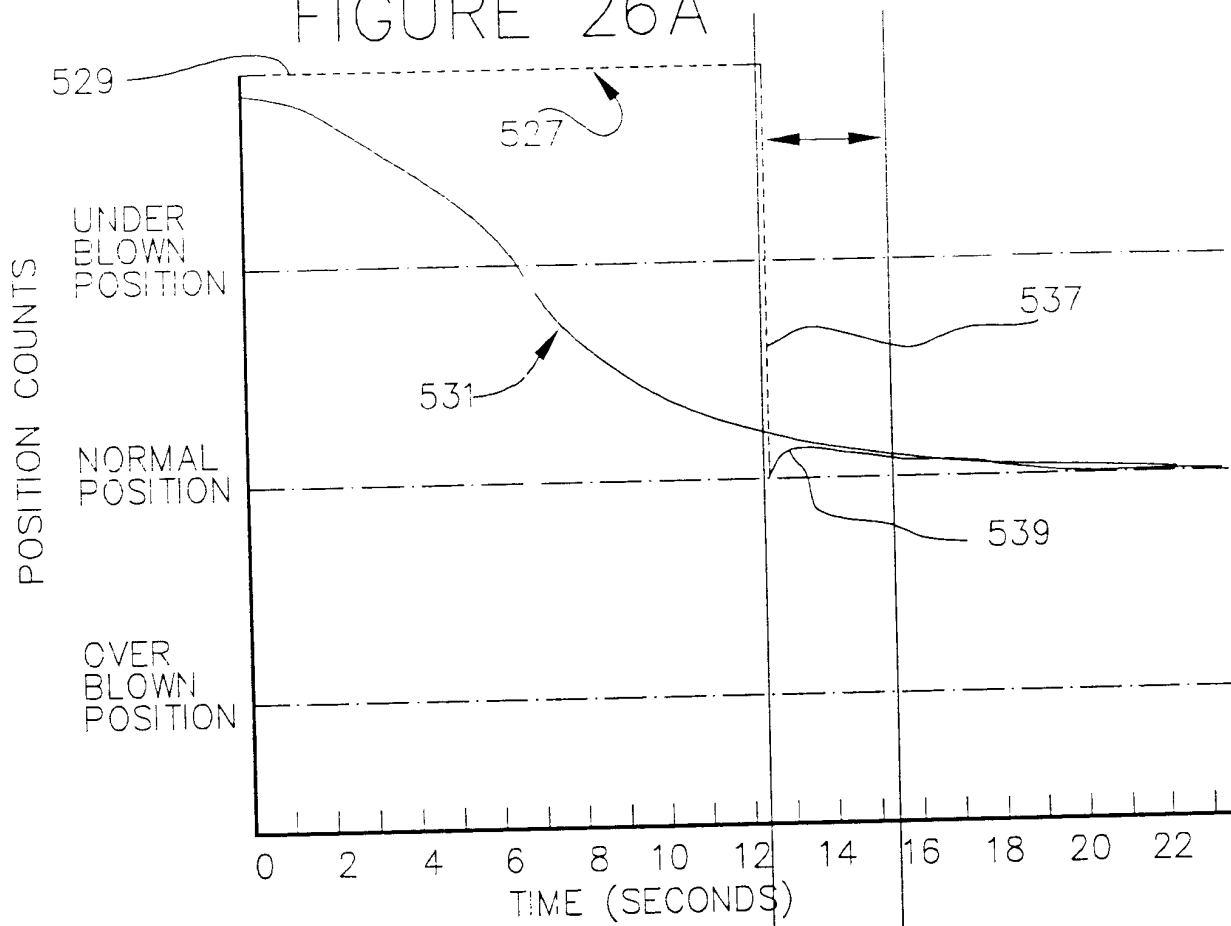


FIGURE 26B

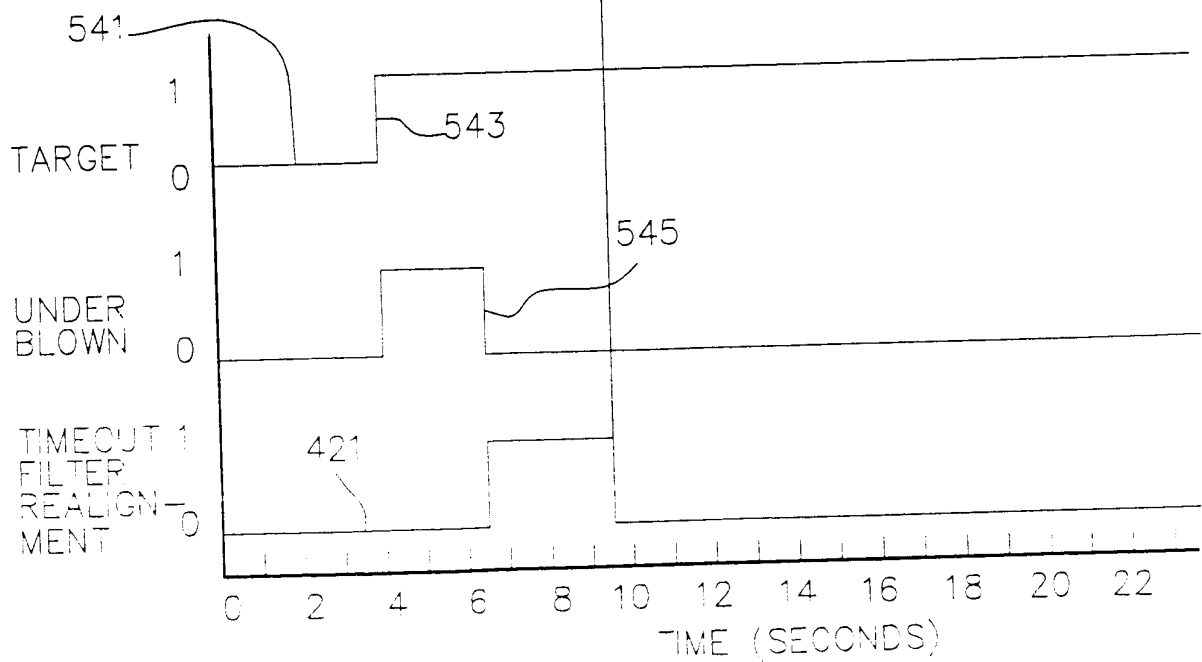
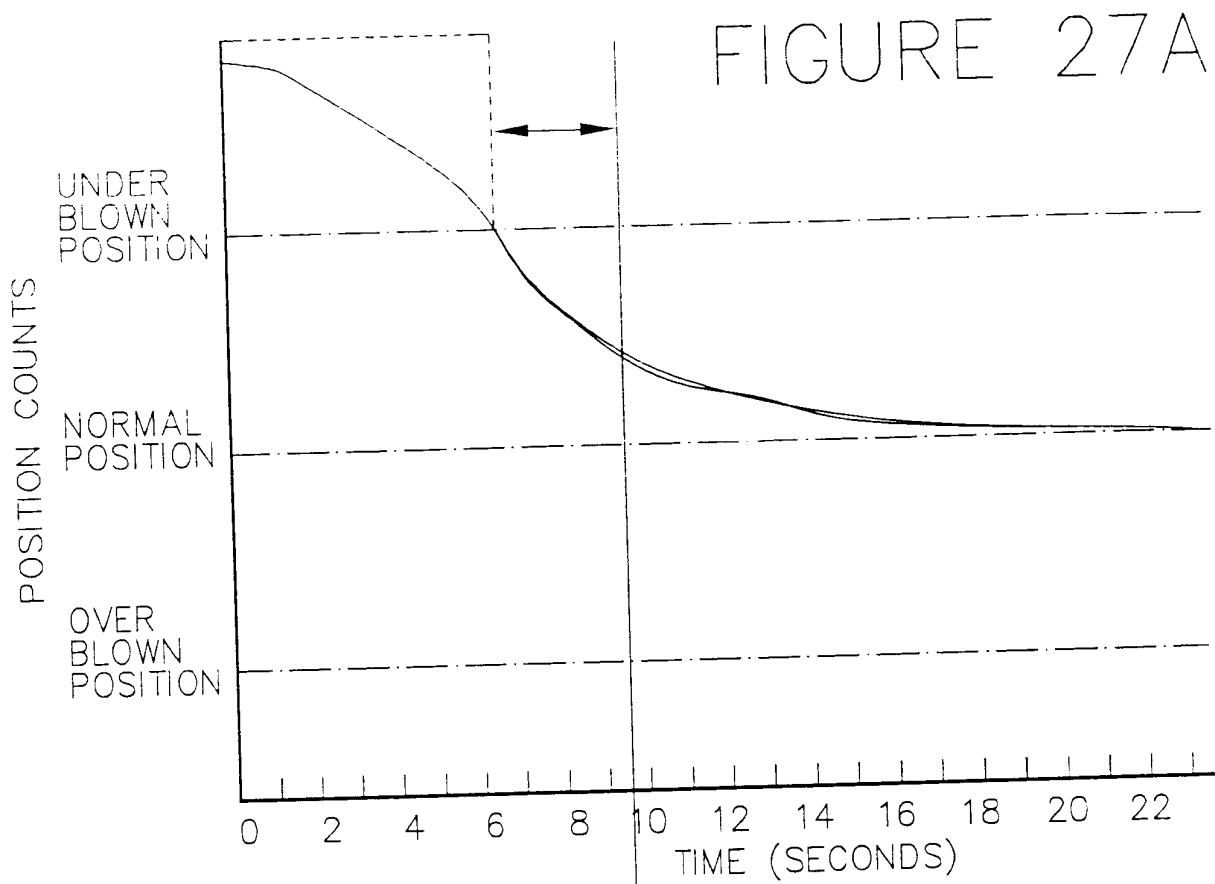


FIGURE 27B

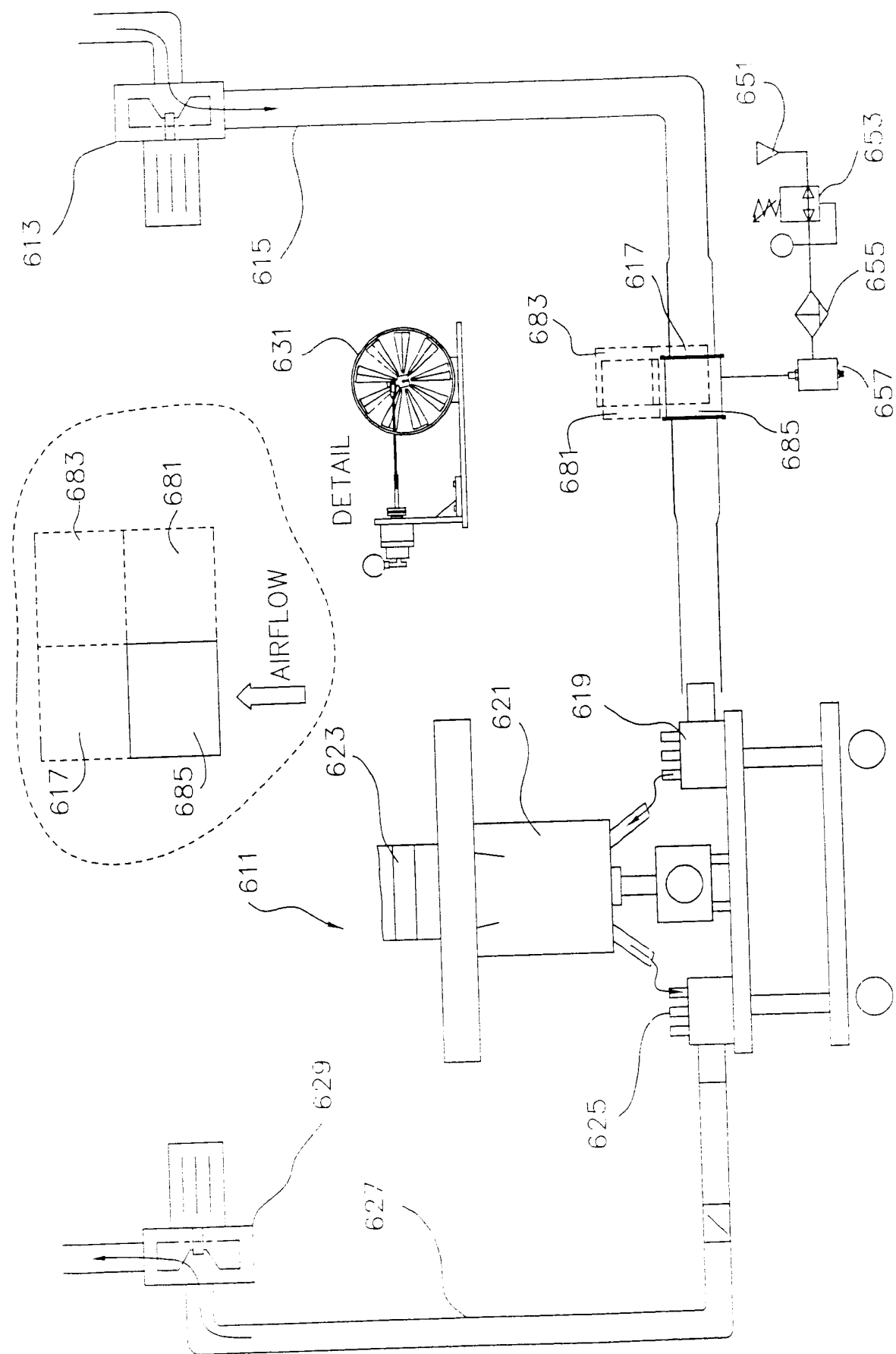
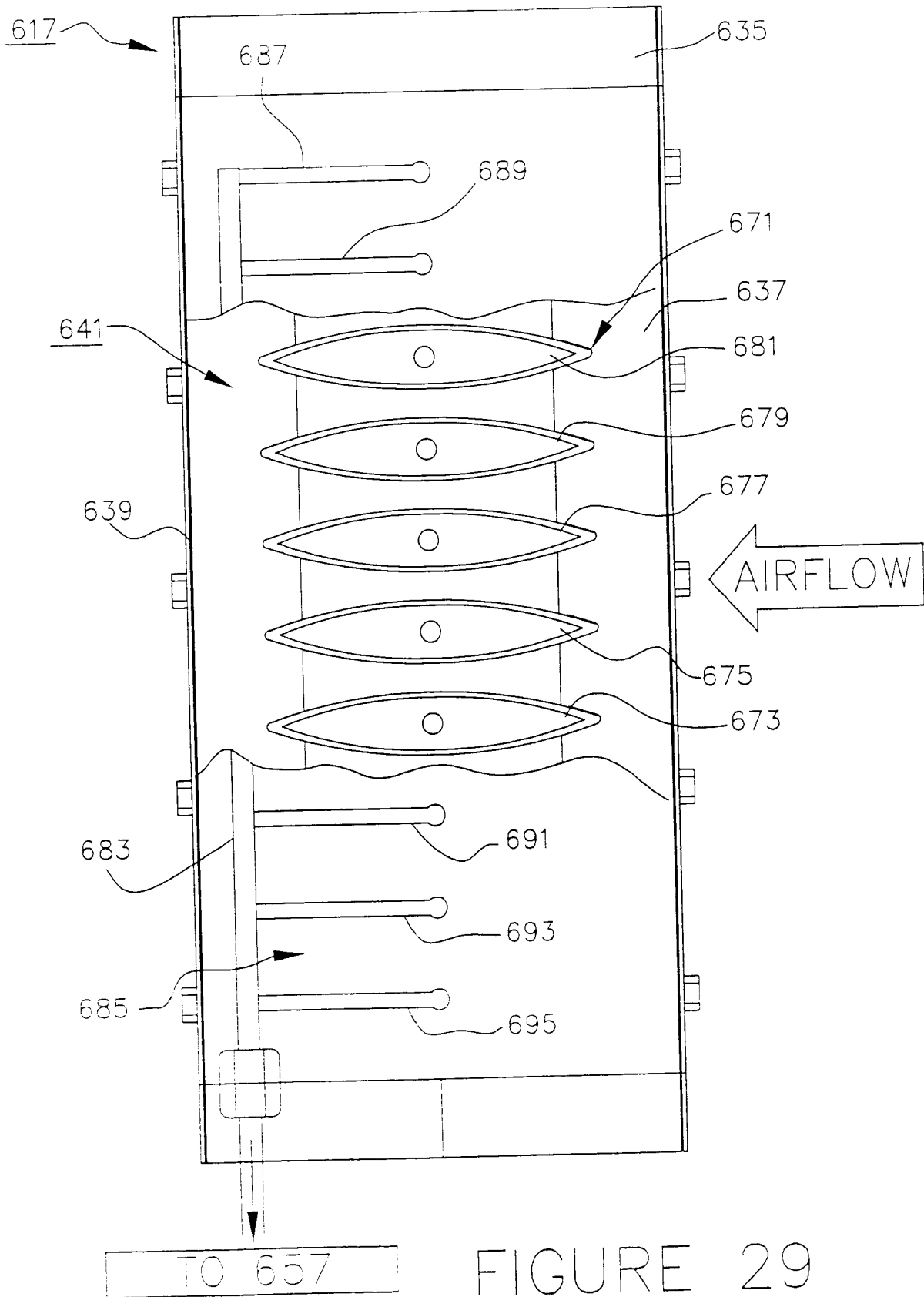


FIGURE 28



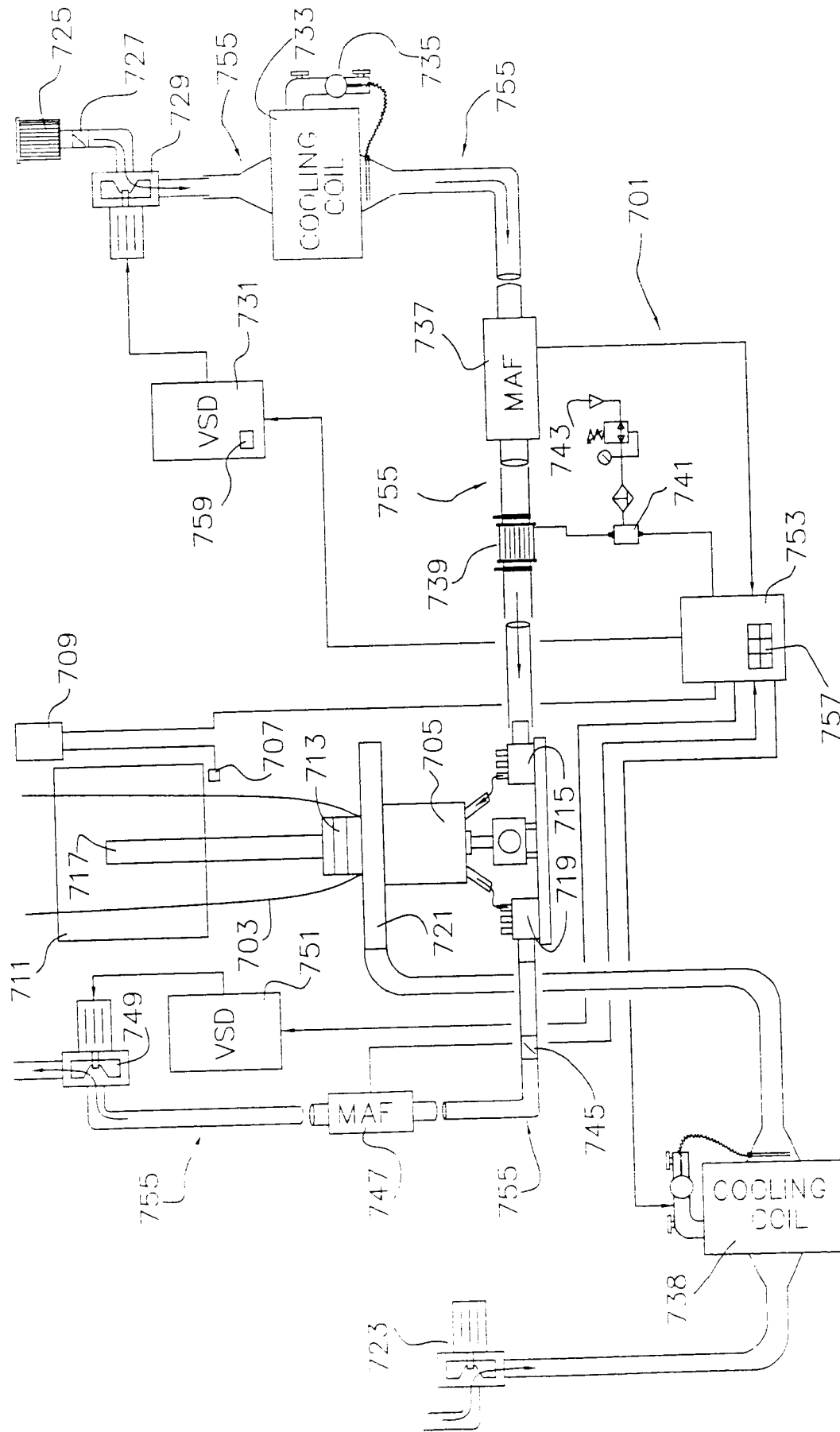


FIGURE 30

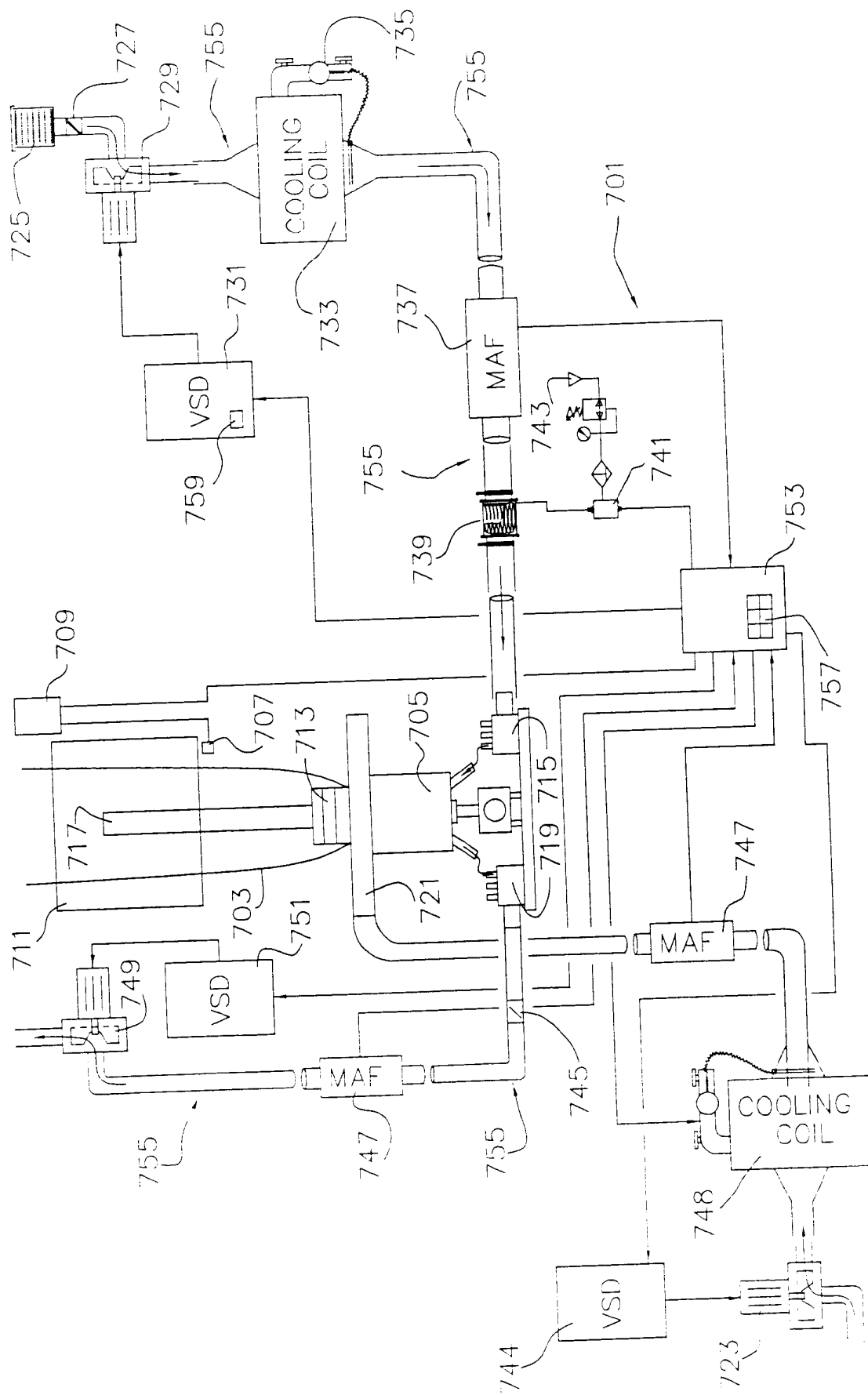


FIGURE 31

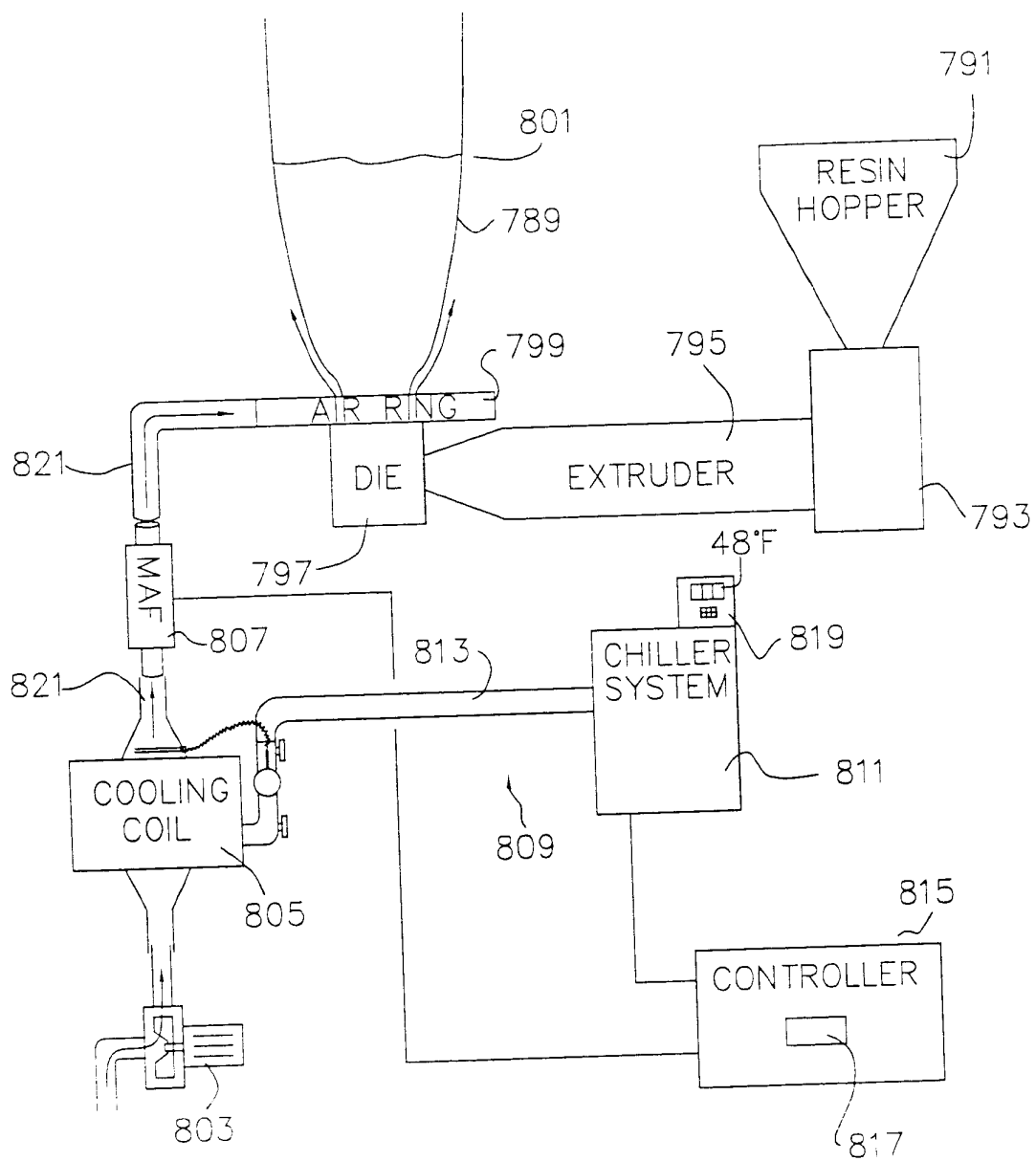


FIGURE 32

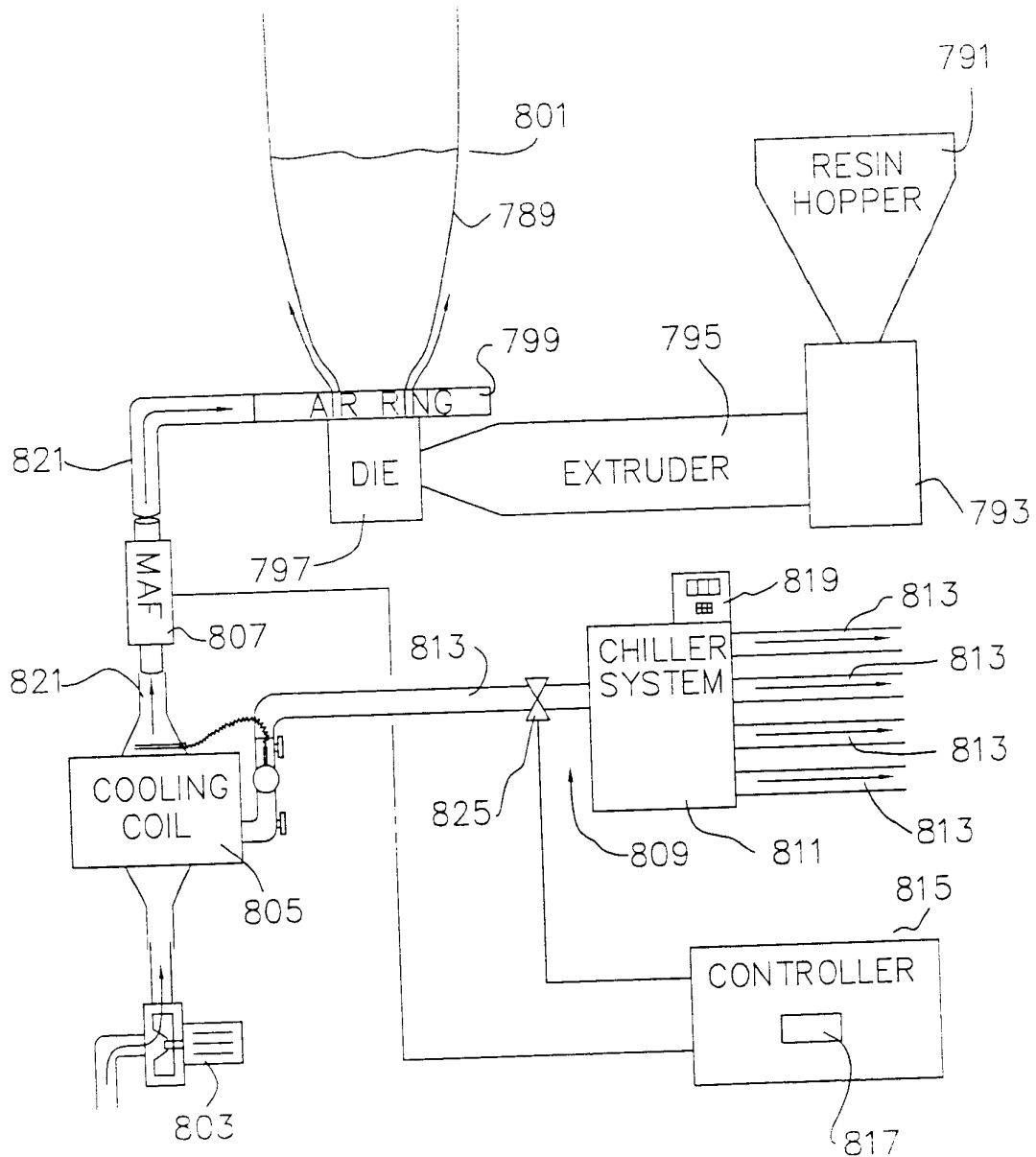


FIGURE 33

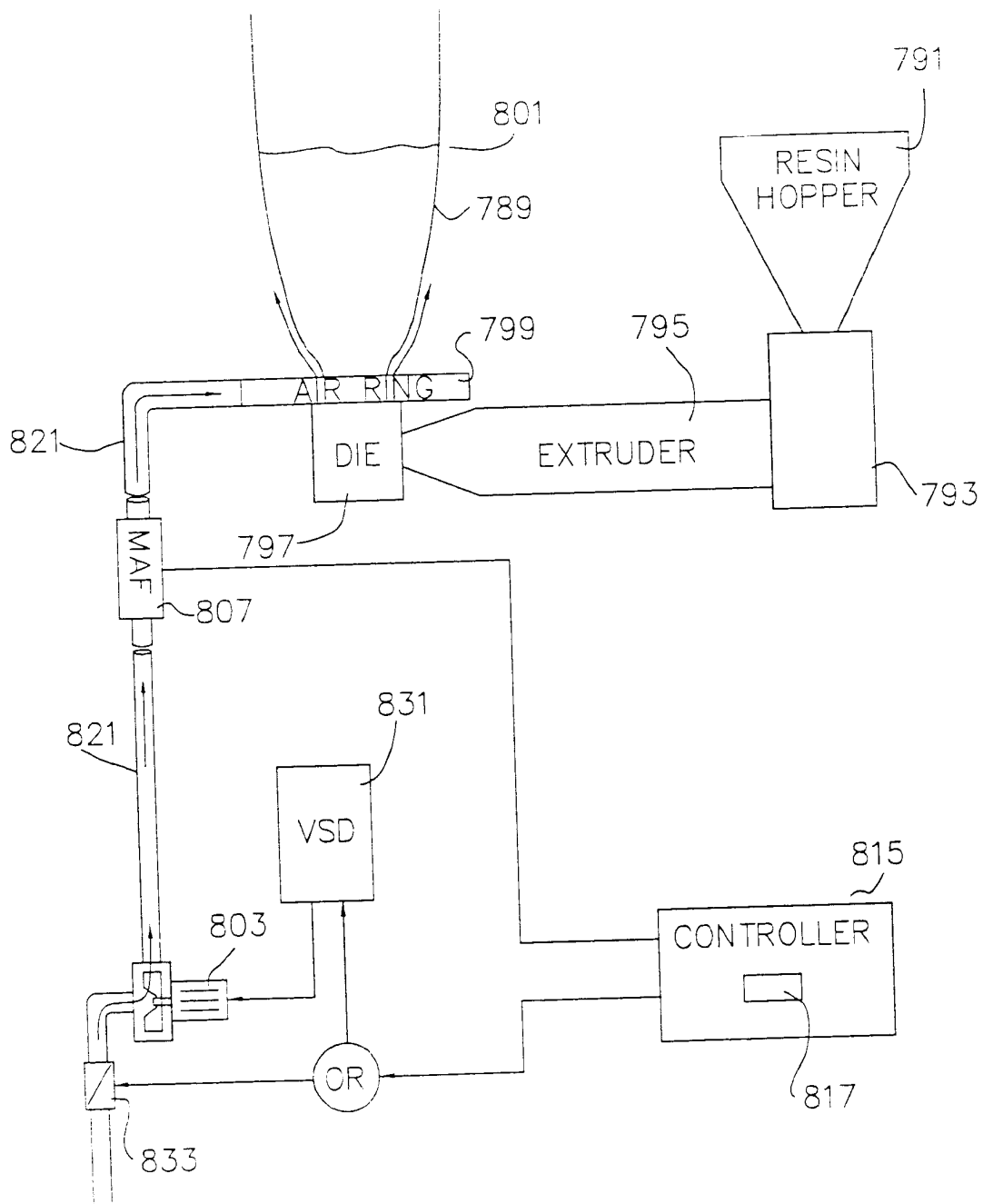


FIGURE 34

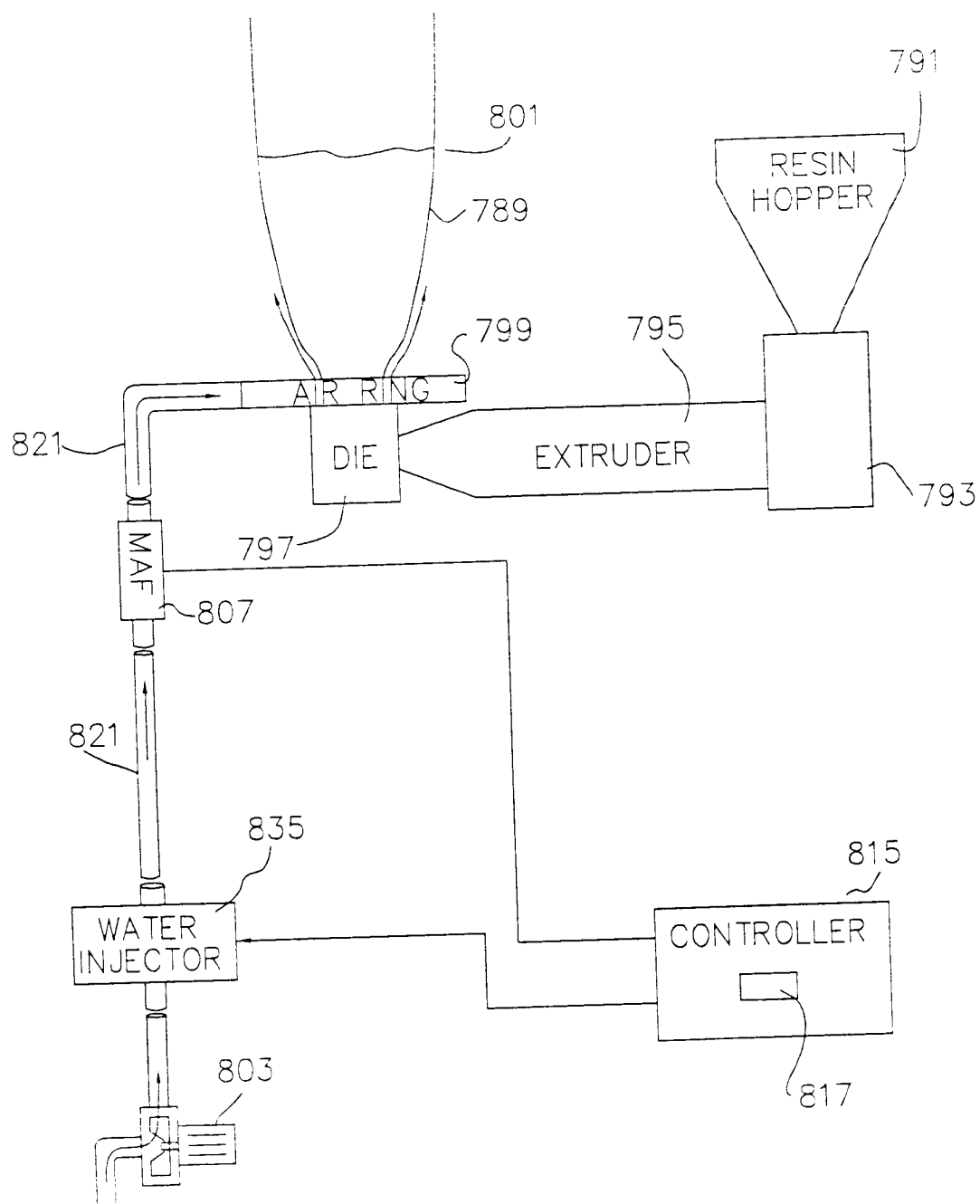


FIGURE 35

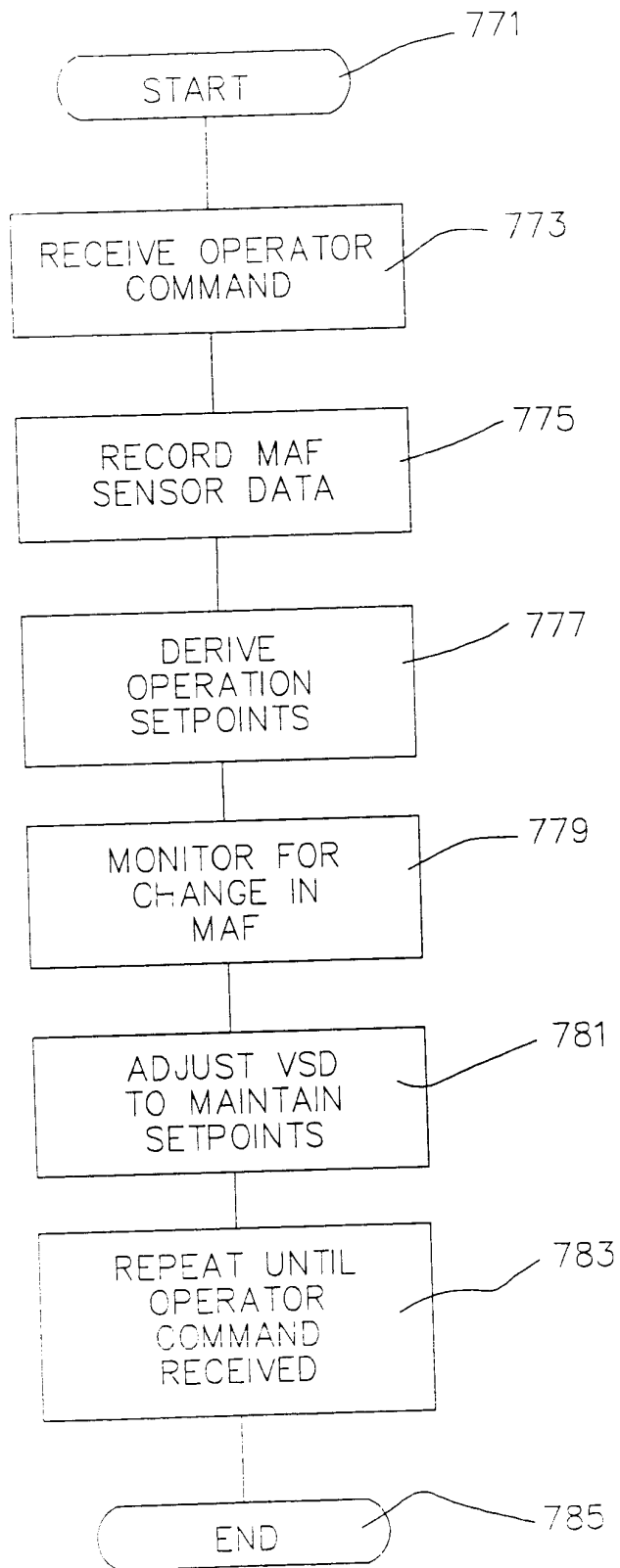


FIGURE 36

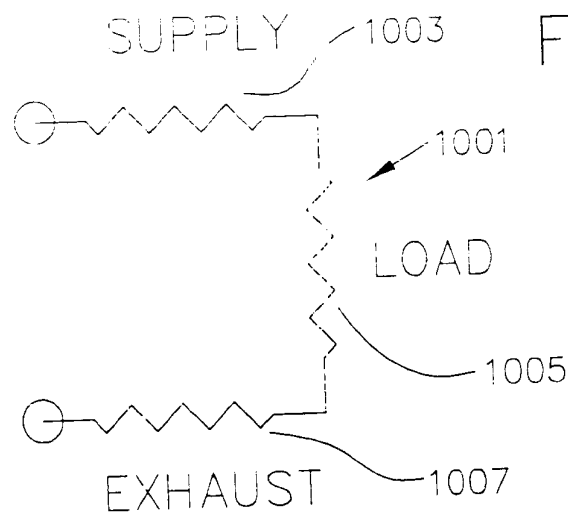


FIGURE 37A
(PRIOR ART)

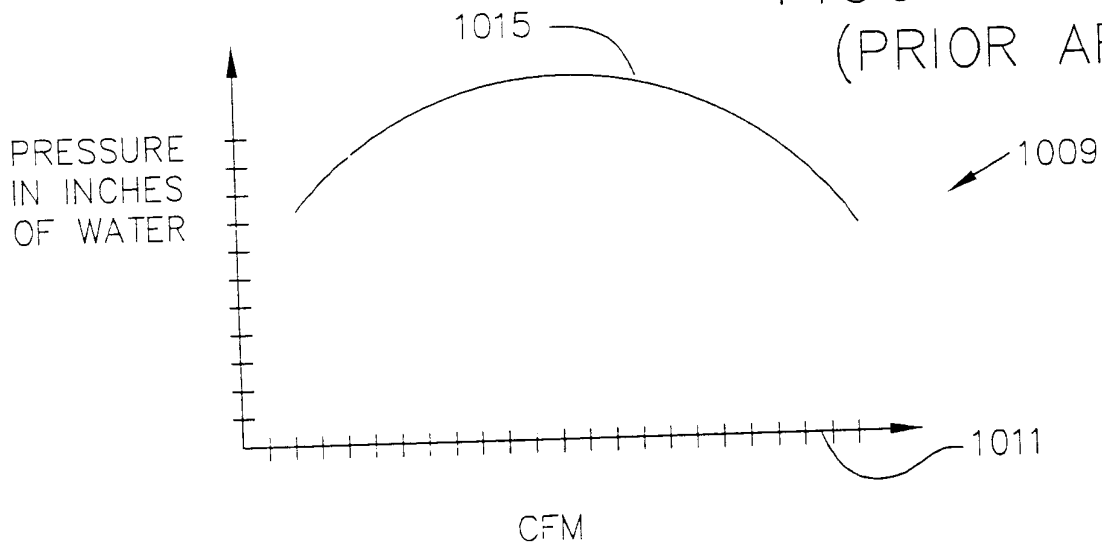
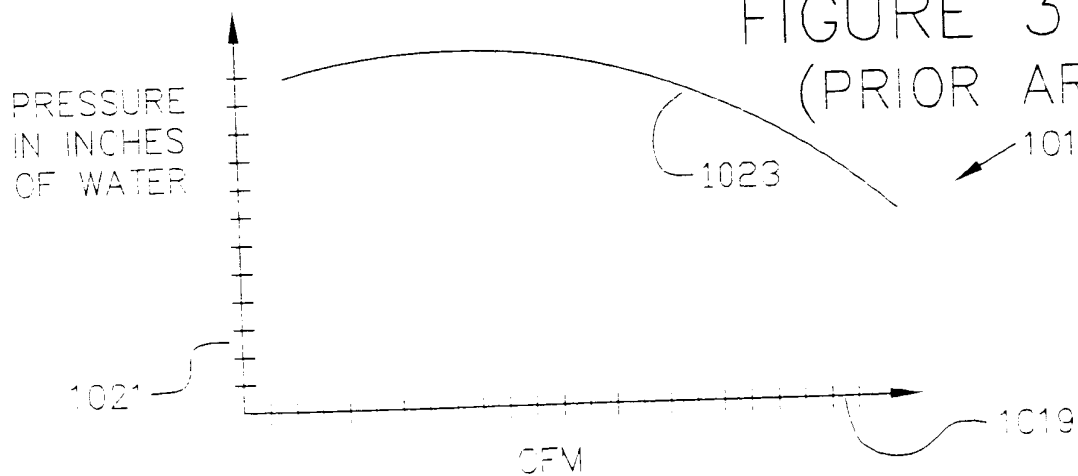


FIGURE 37C
(PRIOR ART)



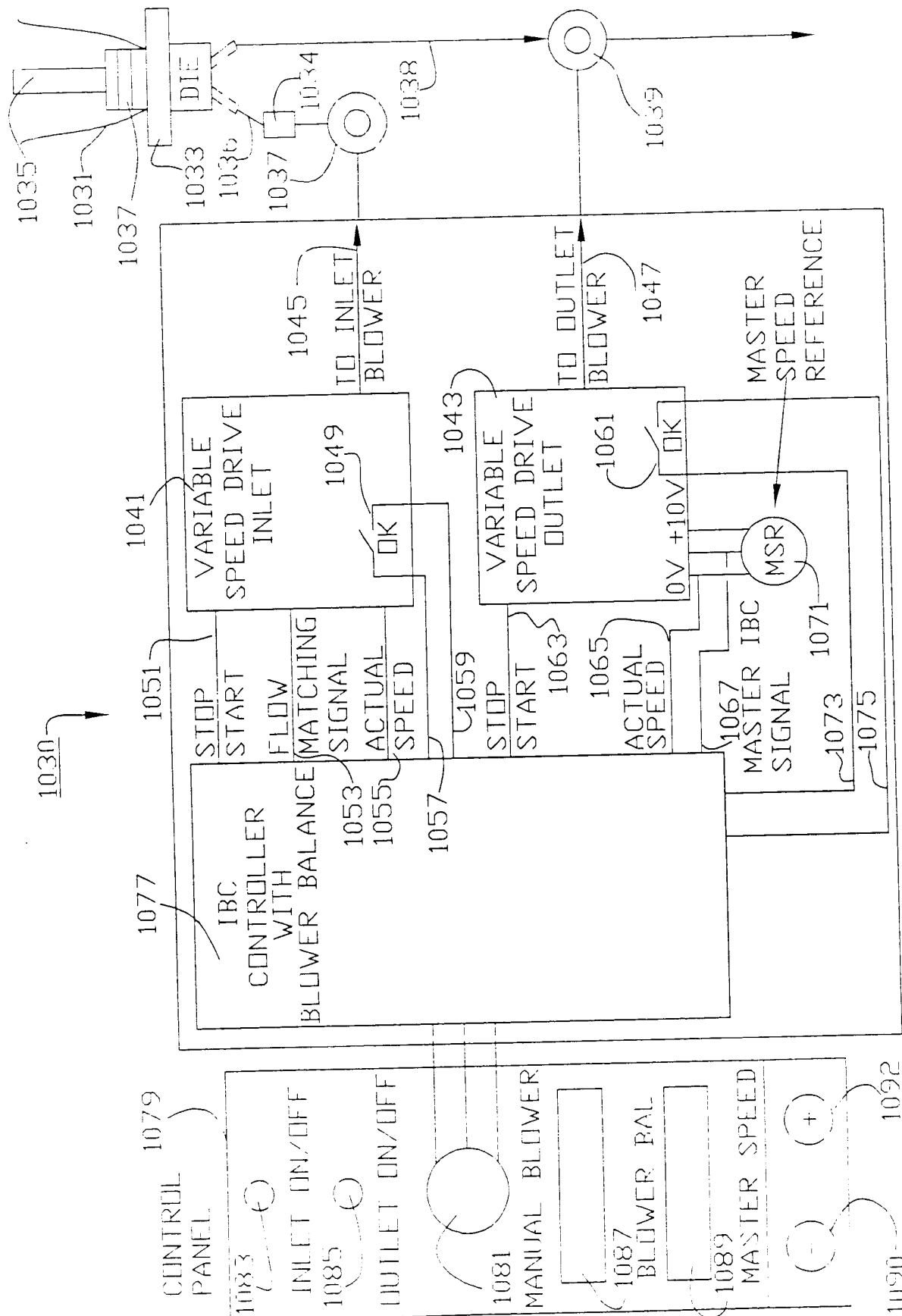


FIGURE 37D

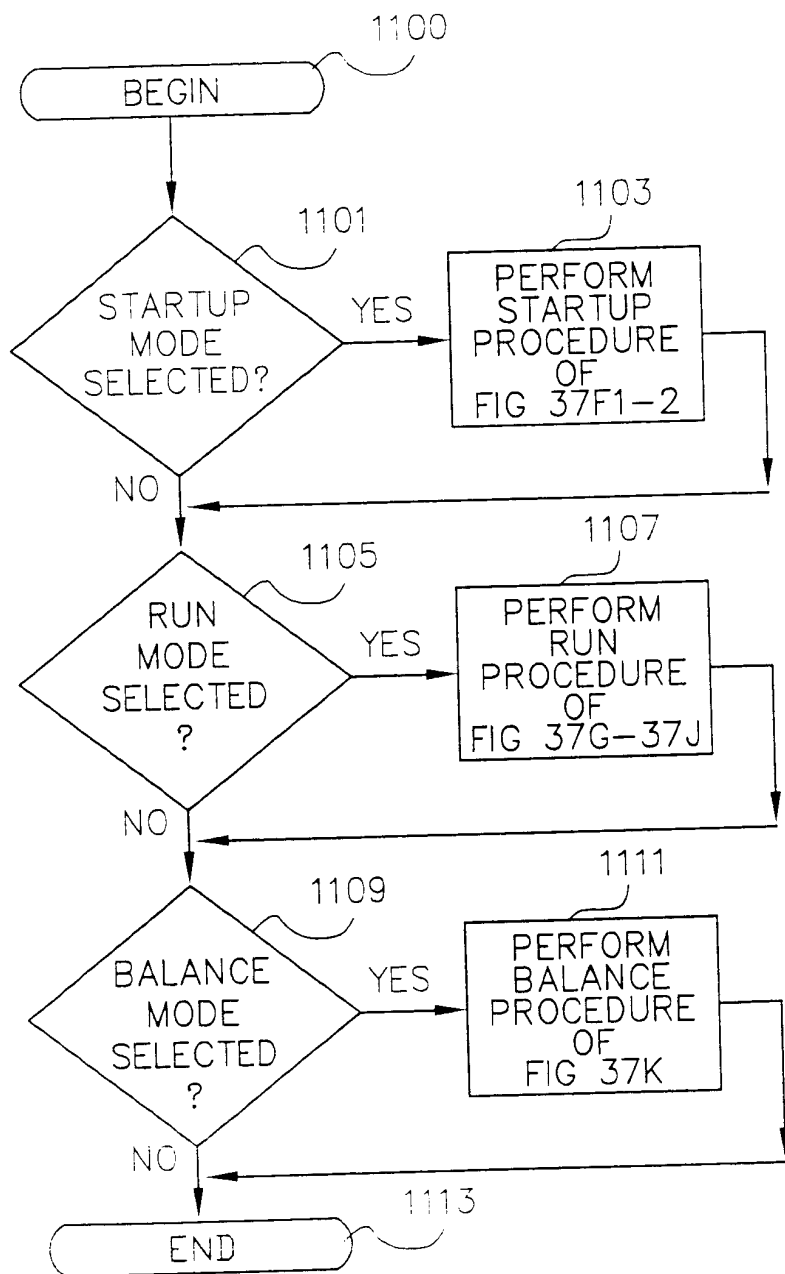


FIGURE 37E

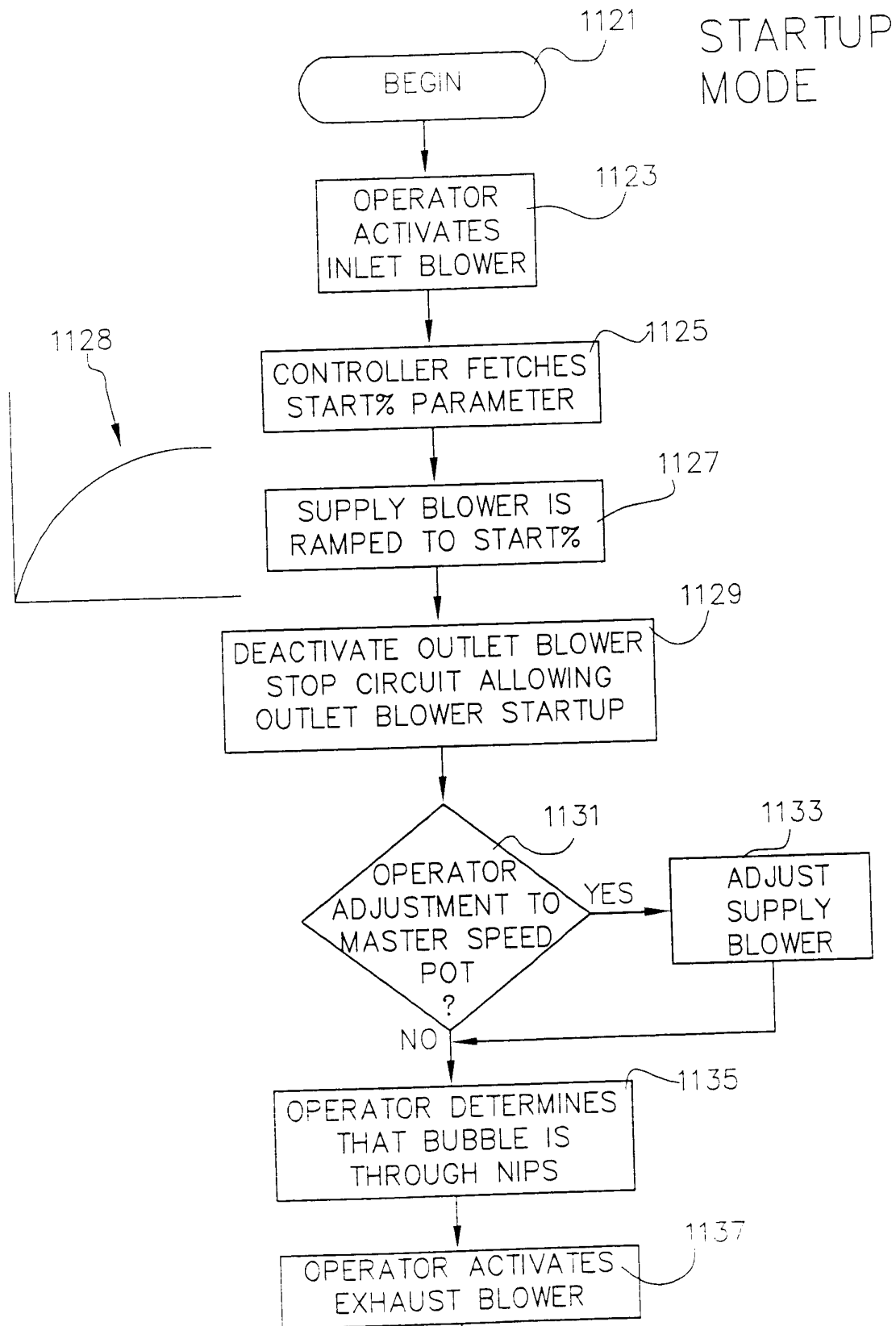


FIGURE 37F1

STARTUP MODE CONTINUED

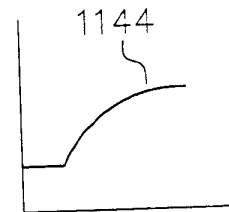
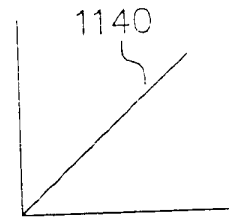
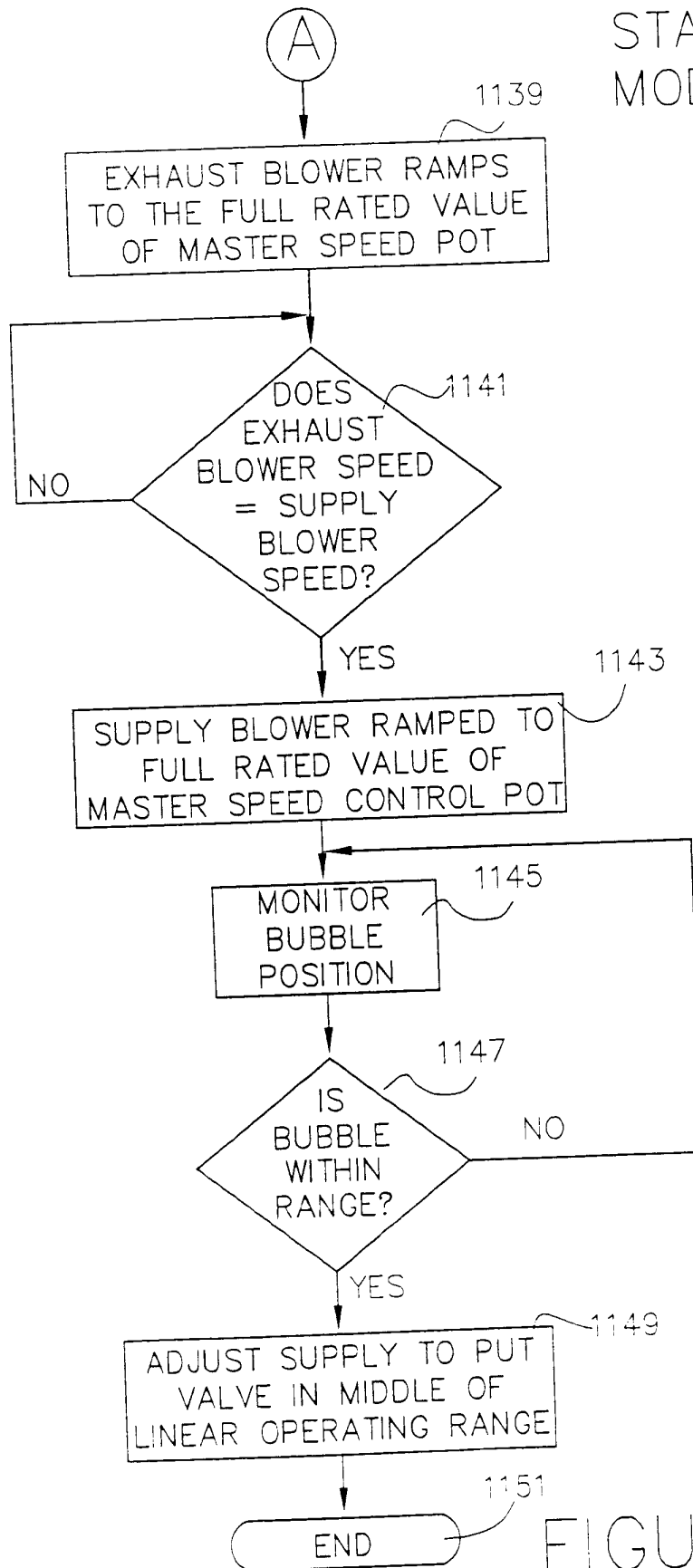


FIGURE 37F2

RUN
MODE

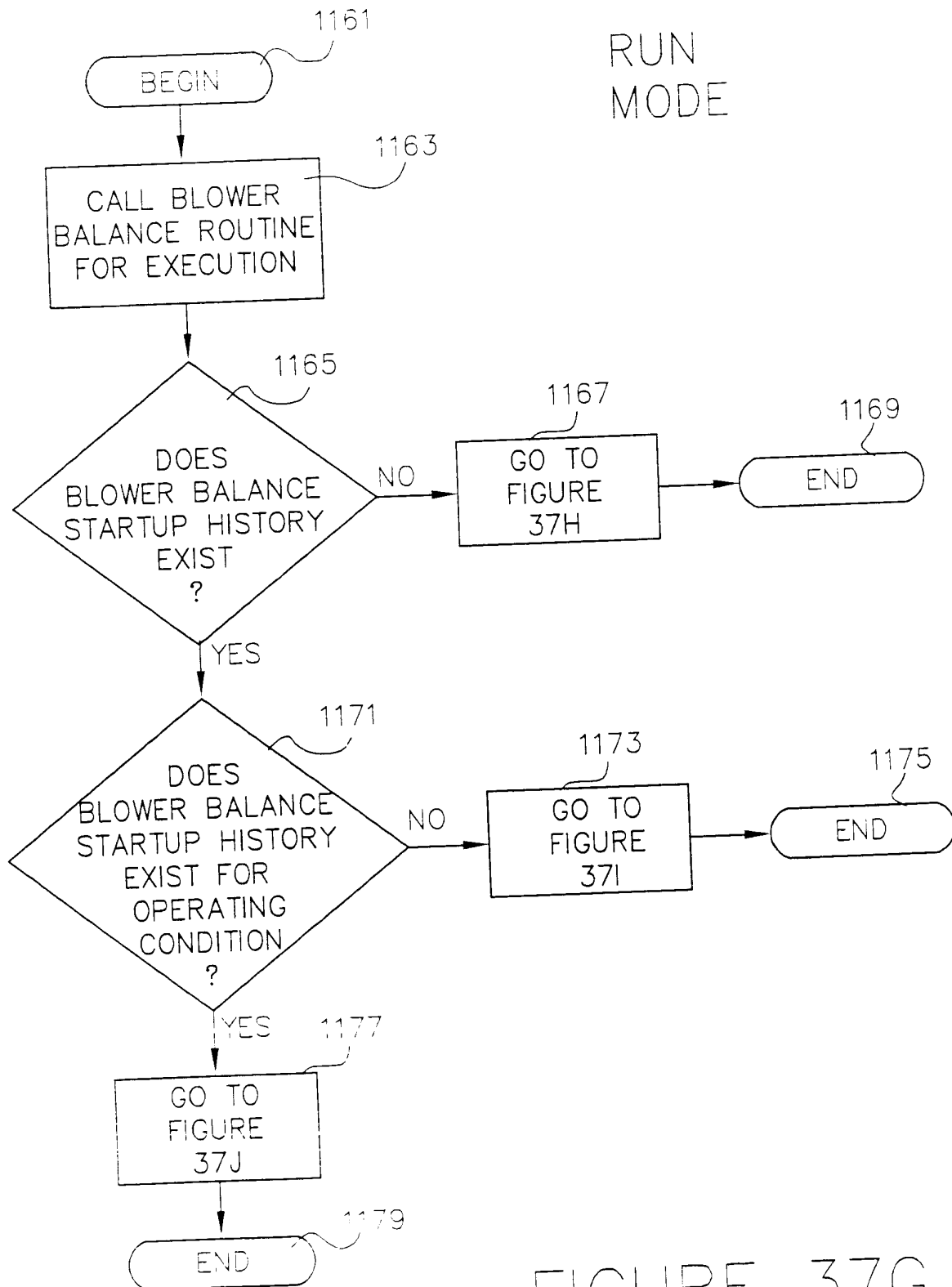


FIGURE 37G

RUN
MODE

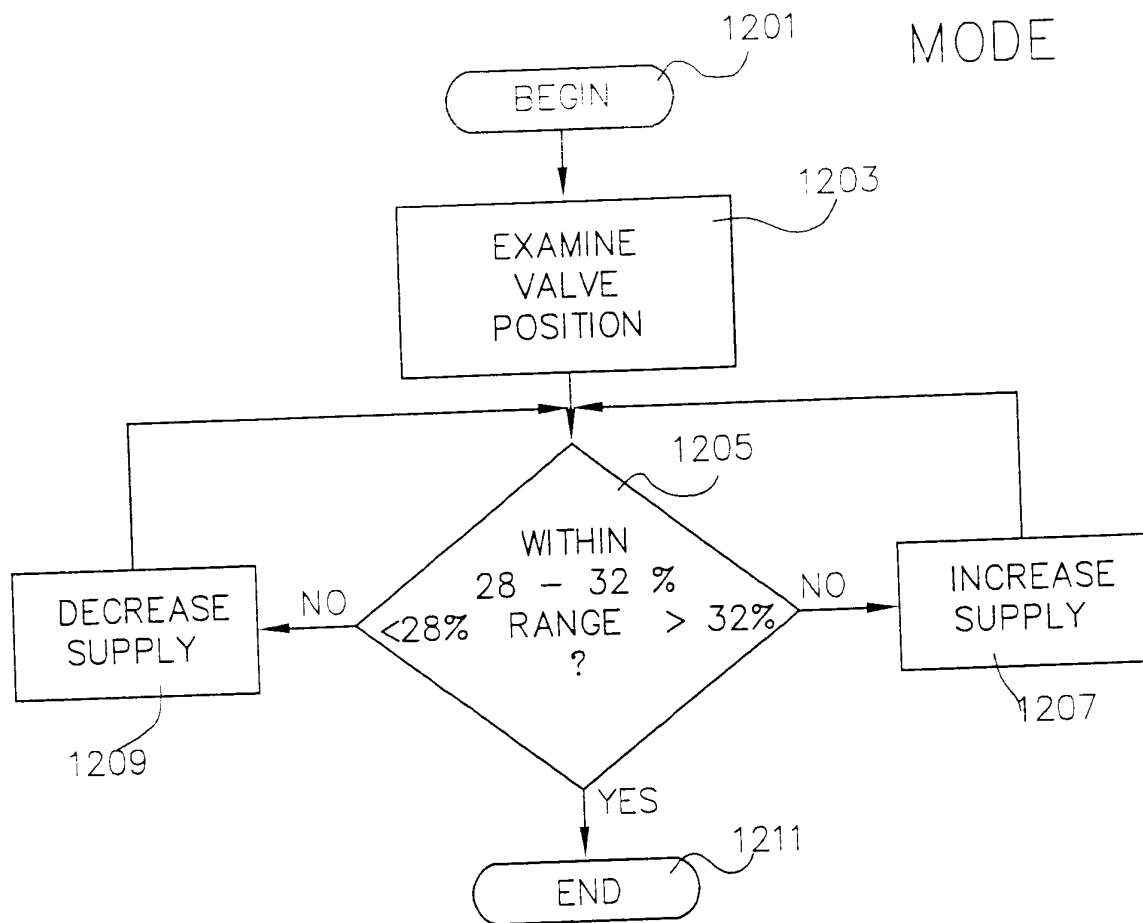


FIGURE 37H

RUN
MODE

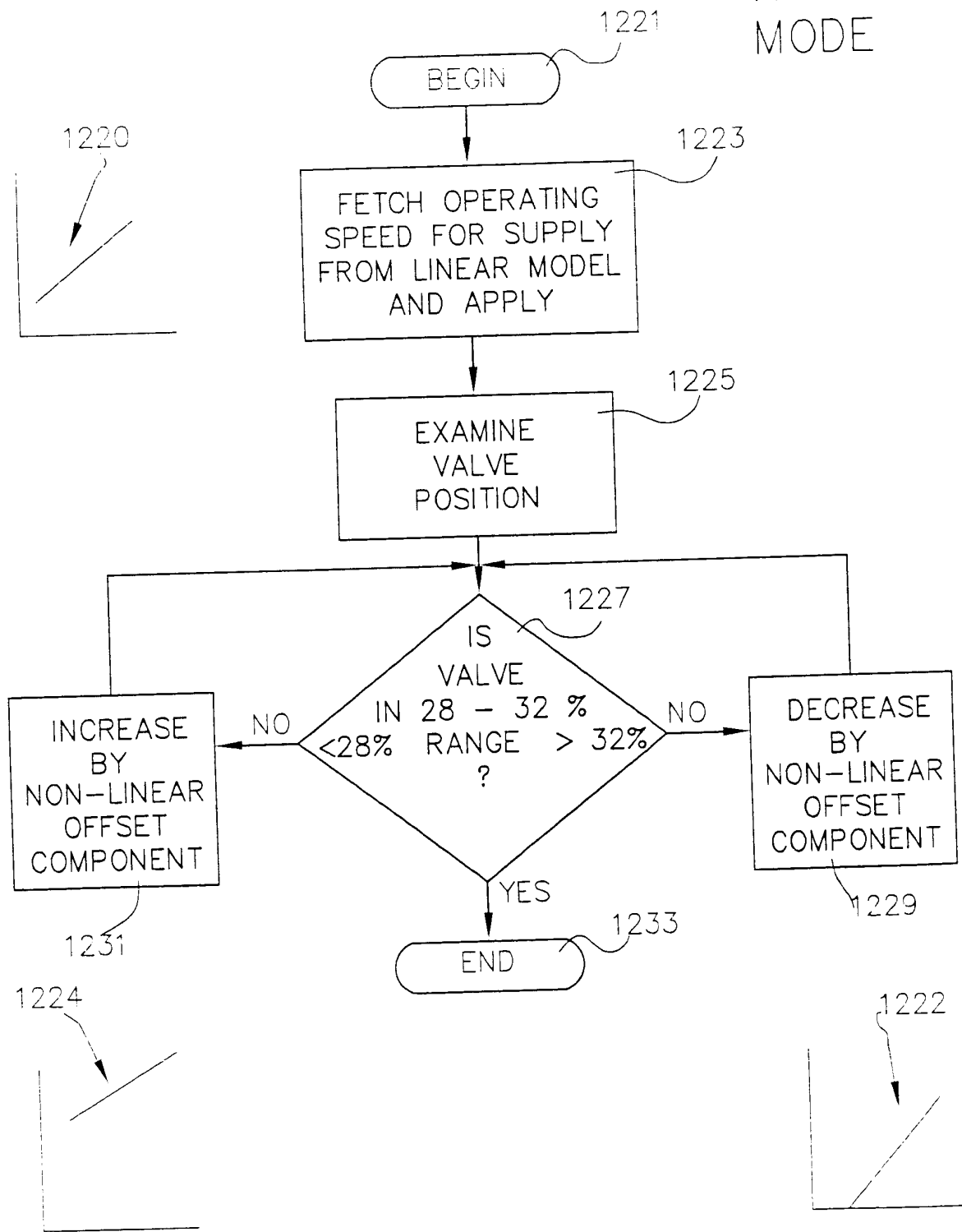


FIGURE 371

RUN
MODE

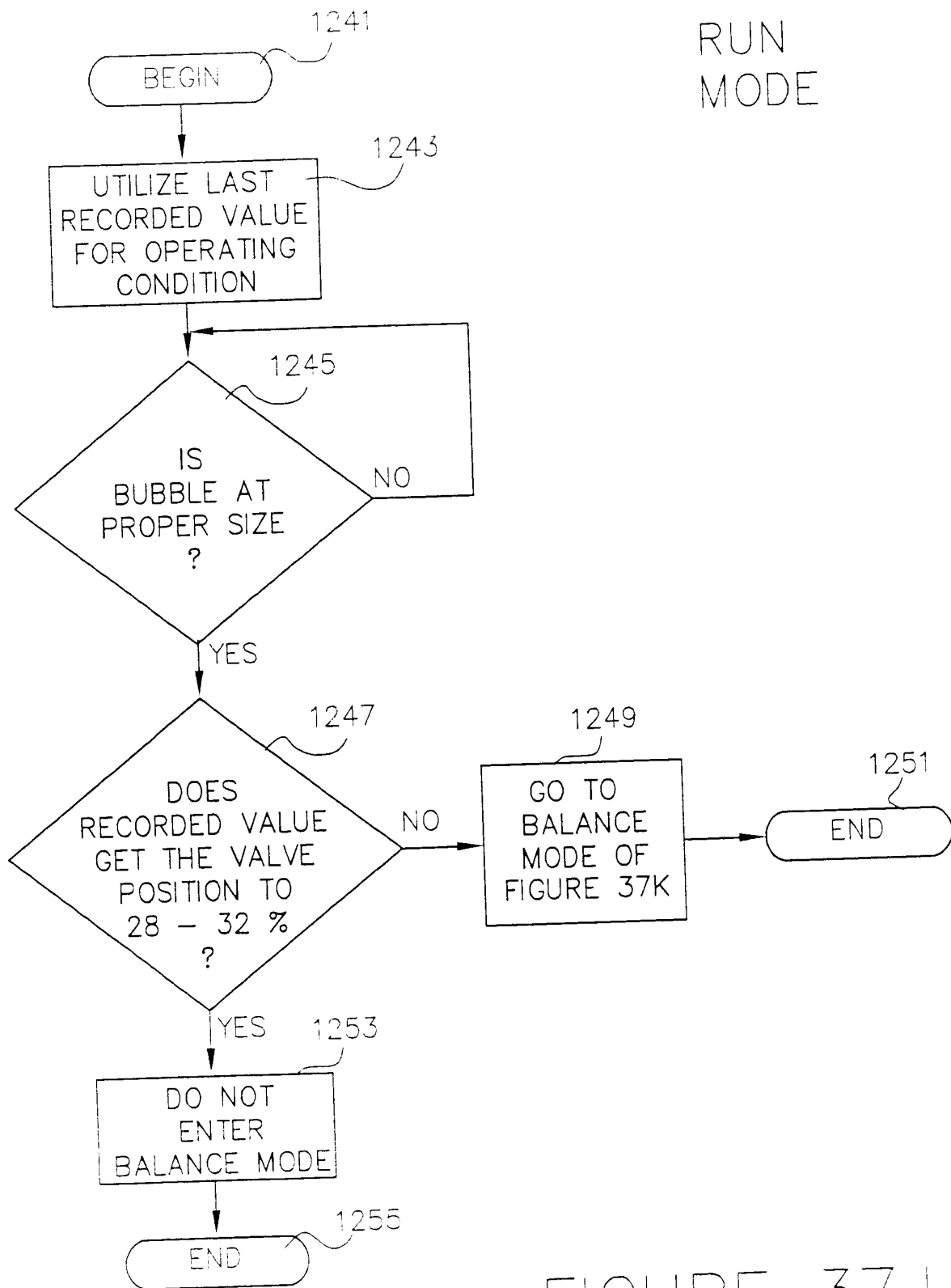


FIGURE 37J

BALANCE
MODE

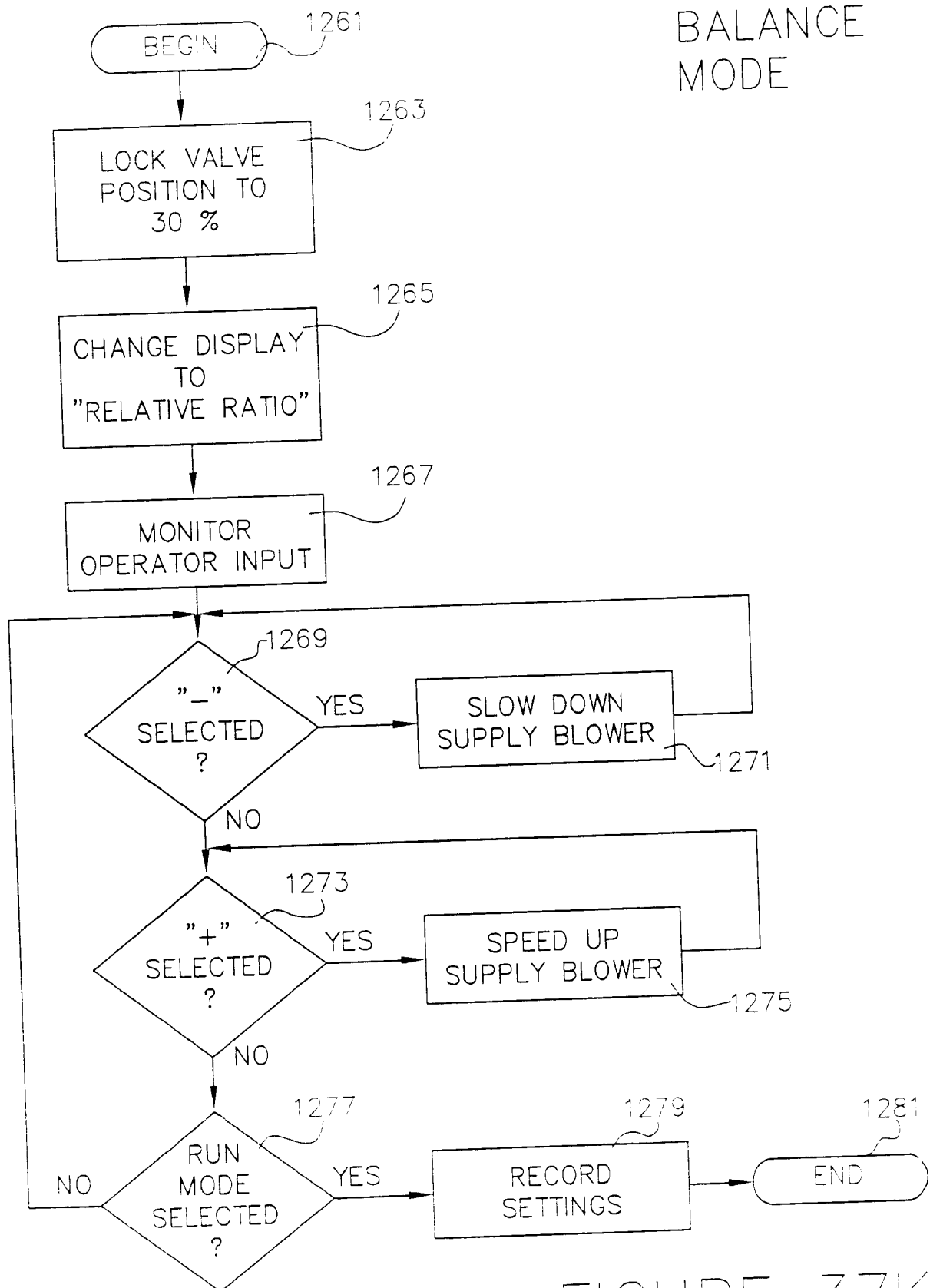


FIGURE 37K

1301 MASTER SPEED POT SETTING	1303 SUPPLY SPEED	1305 REFERENCE VOLTS
A% B% ° ° ° °	AC AG ° ° ° °	BD BF ° ° ° °
Z%	AM	BX

FIGURE 37L

BUBBLE BREAK DETECTOR

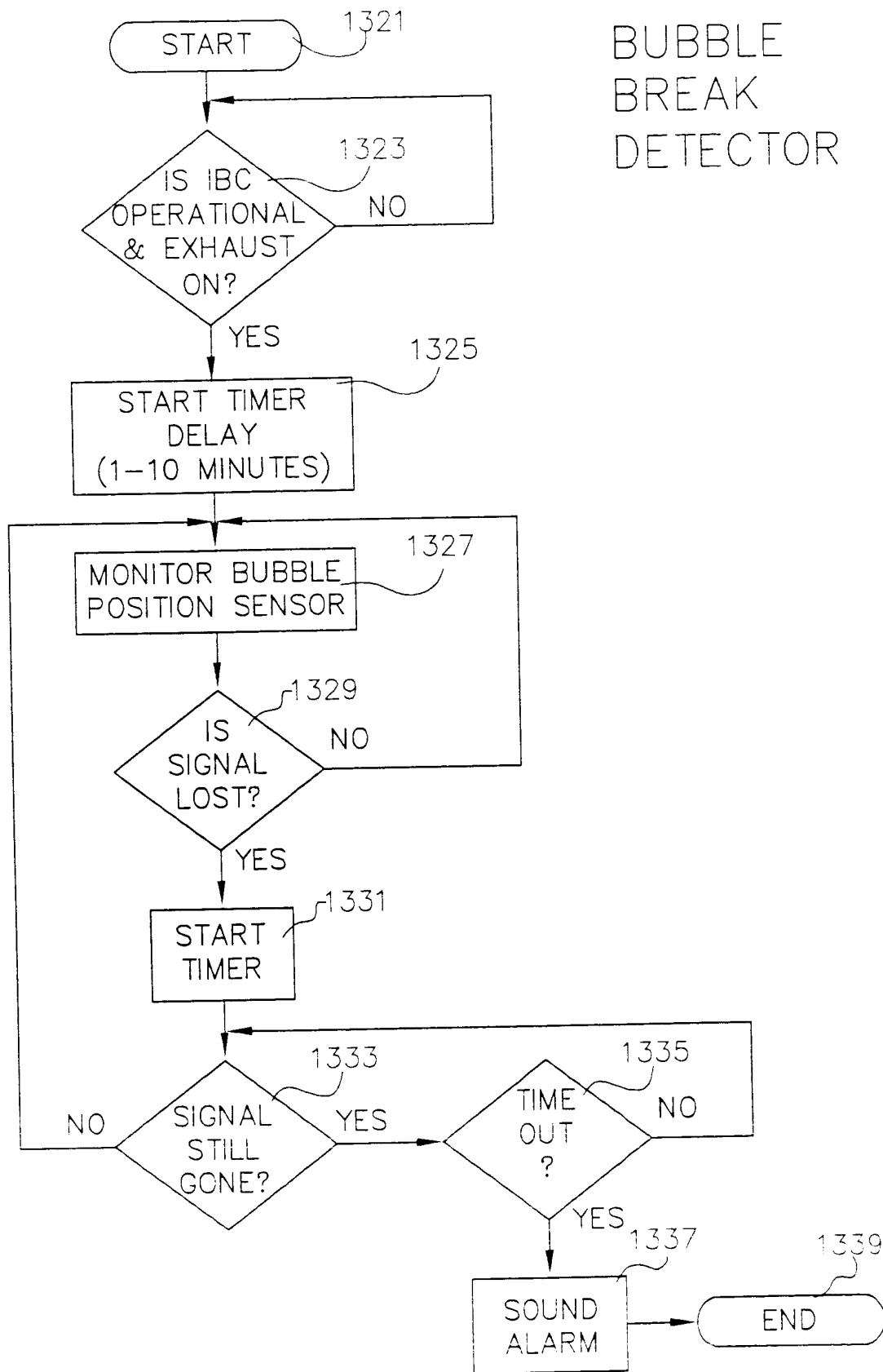


FIGURE 37M